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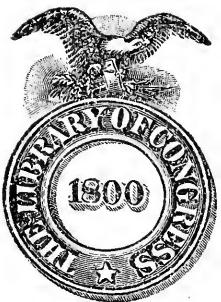
THE  
INVENTOR'S MANUAL  
OF  
VALUABLE INFORMATION

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M. G. DELANEY

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Yours for Success  
Mr. G. Delaney

THE  
INVENTOR'S MANUAL  
OF  
VALUABLE INFORMATION

WILL GIVE YOU A CLEAR AND  
CONCISE IDEA OF HOW INVENTIONS  
CAN AND SHOULD BE HANDLED

BY  
M. G. DELANEY

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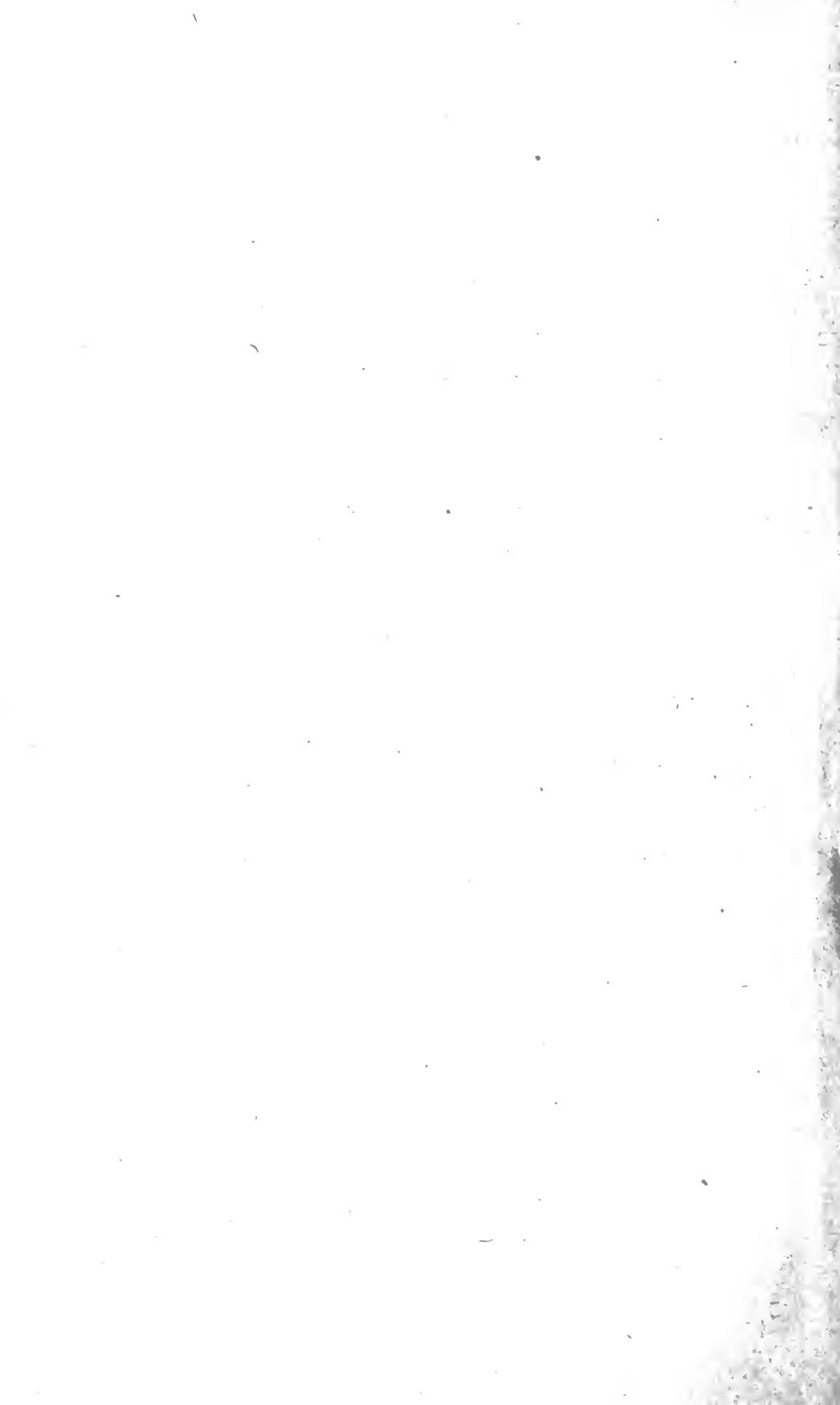
## PREFACE

Years of experience in handling my own inventions and patents have shown me the numerous pitfalls into which the unsuspecting inventor stumbles.

Having learned how to avoid those pitfalls and believing that my fellow-inventors would benefit by and sincerely appreciate a few words of advice from an experienced inventor, I have taken great pains and pleasure in preparing this volume which I dedicate to these fellow-inventors in the hope that it will be the means of gaining for them just returns on the product of their ingenuity.

Fraternally yours,

THE AUTHOR.



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# INVENTOR'S MANUAL

## CHAPTER I

### INVENTING

#### **Invention: The Poor Man's Opportunity.**

In no other field of endeavor are the chances of immense and quick returns so great as in the field of invention. Its scope is world wide; its opportunities limitless. This may well be termed "the age of invention". Labor- and time-saving devices and appliances are in greater demand than ever before. The recent war saw the birth of literally thousands of startling inventions. Out of necessity men invented then who had never before dreamed of inventing anything.

The world is full of people working for a small wage who, if they would but exert their mental faculties and their power of observation and give a timely thought to a single improvement in any one of the numerous articles surrounding them in home, office, shop, or factory,

would be rewarded, from a pecuniary standpoint, with an amount equal to their ordinary earnings for a number of years.

Real inventors invent because they cannot help it. Their minds are continually concentrated upon improving present devices as they find them or producing new ideas. Perhaps their first effort is crude, but they finally bring out the improved, completed article.

The majority of inventions are merely improvements over some article already in existence; in fact, it is generally the improvement and not the originally conceived idea that nets the larger return.

### **The Most Successful Inventions.**

As a rule the most successful inventions are closely connected with the line of business with which their inventor is or has been associated, though they are sometimes brought out by men with no experience along the line to which their invention applies. In many cases new laws are discovered or new applications for old ones, defying the principles of formerly accepted laws entirely.

To be really successful any invention must possess utility, simplicity and practicability. It is well to find out, if possible, what is or would

be the demand for the proposed invention before spending much time on it.

#### **Protection of the United States Government.**

The United States Government issues over 30,000 patents annually. Its very liberal patent system and the protection it affords the inventor encourages the development of new ideas and stimulates further effort.

No invention may be imported from foreign countries similar to one patented and on file in the United States Patent Office without the consent of the inventor of the latter.

#### **Demand for Inventions.**

As to the demand for inventions of merit there is no doubt. Never, perhaps, in the history of our country has the demand been so great as right now. There are always interested people looking for the latest developments in inventions and if one has conceived something of merit, it remains only a matter of steering it safely through the necessary business channels to where the world will buy and use it.

#### **The Inventor's Chief Requisites.**

Confidence, tenacity of purpose, and capital are the chief requisites for building up a for-

tune on the foundation of a patent. The patent itself must, first of all, be of intrinsic worth in order to succeed.

But one need not be an Edison, a Bell, Howe, or Singer to win success; some of the most profitable inventions ever marketed have been so simple that the sums realized from them are almost unbelievable.

For instance, the invention of a lamp chimney yielded over \$50,000 a year for several years; Waterman's crinoline wire brought over \$185,000; Mrs. Potts' sad iron netted over \$50,000 in royalties. The genius who invented the rubber eraser tip for lead pencils realized a fortune; the tin cap for bottles was a great money maker, while the metal fastener for shoe buttons produced an independent fortune. And so on.

### **Simple Inventions the Best.**

One could continue almost indefinitely enumerating instances where simple inventions have netted enormous returns. I want to impress you with the value of *little things*. The simplest inventions are the best money makers. They require less time, expense and effort to perfect and market than is required by a complicated machine or something for which complicated machinery must be constructed.

A basic idea or patent is very desirable—please do not understand me as aiming to discourage them—but generally such is no sooner issued than improvements begin to appear—and the improvements reap the greater reward.

Do not despise the little things. You can never tell when you will be fortunate enough to strike a really good one.

You have heard the old saying, "There is nothing new under the sun," so do not imagine that you must bring out something new, radical, or revolutionary in order to make a success of invention. As said before, the majority of inventions are improvements over some existing patent and improvements generally pay as well as, if not better than, the original and are more quickly snapped up.

An absolutely new or basic idea, although it may be for a scarce or utterly lacking article and one that in time might prove of unthought of value, will require time, patience, money, and frequently worry, to bring before and educate the public to its use. Many inventions would have landed on the rocks of financial distress if it had not been for the tenacity, courage and determination with which their inventors hung on.

You know that other old saying, "Necessity

is the mother of invention." Every big invention makes necessary many minor ones—accessories, parts, etc. Not to give a long list of examples one might mention electricity and the automobile. Add as many more as you wish.

### Dormant Inventions.

There are excellent inventions lying idle which, if properly pushed, would net the inventor handsome returns. For lack of knowledge or initiative or some other reason, they are allowed to remain in obscurity. This condition should not be. The world is that much poorer for not having the use of many time- and labor-saving devices and their inventors are that much poorer for not enjoying the reward the world would gladly pay for them.

A patent is allowed for a term of seventeen years, after which it becomes the property of anyone who wishes to make use of it. Of course, it is supposed that something definite is done with a patent in that length of time. If not it is the inventor's fault in one way or another and he has only himself to blame.

It has frequently happened that patents have begun to bring results just as they were about to expire. If you have such a patent, *get out*

*of the rut and push it!* Follow the suggestions given in this Manual and instead of owning something which is doing neither you nor anyone else any good, you will, in all probability, give the world something it has long been waiting for and, more than likely, receive in return a profit you never dreamed of.

If you have an idea which you think of "some day" inventing, get busy right away; invent it, patent it, sell it!

If you have patented something but gone no further, now is the time to revive your interest in the child of your brain and bring it up to be of use to humanity. Neither is anywhere near as difficult as you may have imagined.

### How to Invent.

Invention lies in the power of thought and concentration. To make a success of invention you must have the ability to think and *think deeply*, concentrate your mind upon some one thought, idea or plan and to your thought add practical experience, training or knowledge.

Study the things around you, articles you use at home, at work, or on your travels. Do they satisfy you? Why not? Can't you improve them? How? Can't they be made more simple, with fewer parts, less expensive? How?

If you are not satisfied with what comes to you second hand but feel inspired to improve it in some way, you may truly be called an "infant inventor."

Whatever it may be, determine to remedy the deficiency or understand the features in the object at hand. Study from the beginning. You will be surprised at the number of imperfections you will find.

Do not forget that the main elements of a successful invention are *utility*, *simplicity* and *commercial practicability*.

### The Value of Imagination.

Encourage and develop your imagination; it is one of the inventor's greatest assets. It helps one to see things operated in a different way and to visualize possibilities that others cannot. Don't be afraid to give free rein to your imagination—let it "run wild"—for out of apparent jumble there is likely to evolve a result that will reward you and benefit the world.

## PERFECTING AND PATENTING

### **Competition.**

After conceiving an idea inventors frequently find on the market an article that in some respects resembles their own. At once they lose heart and drop their idea saying, "It is already on the market—what chance have I?"

Don't make this mistake. The improvement you have thought of may be just the device needed to make some article more valuable than before and increase its sales.

Remember, "Competition is the life of trade" and your chances of making a success of an improvement on an existing invention are far greater than were the chances of the inventor of the original or basic device.

### **Perfecting the Invention.**

In the first place, after you have conceived the idea, get your invention in shape to con-

form to the requirements of the patent laws. Never mind details; the patent laws merely require that the invention be theoretically operative. As soon as you have reached this point protect yourself by filing your application for patent.

### **Applying for Patent.**

To do this it is always best to consult a reliable Patent Attorney (Registered). He will be thoroughly familiar with the rules and practice of the Patent Office and will procure results more quickly than you possibly could yourself.

A valid patent cannot be obtained if the invention for which application is being made has been in public use or on sale for more than two years.

Early filing of your application may prove of distinct advantage in establishing priority of your claim should such an occasion arise.

With your application safely filed, you can then take the time necessary to refine and perfect the invention.

### **The Working Device.**

You may employ skilled workmen to assist in the construction of the complete working device

and, although they may offer suggestions as to details and these suggestions be adopted, *the final product will belong to you as the inventor* so long as the completed article remains in basic principle the same as the original. Were this not so many prominent inventors who are not mechanics would be unable to perfect their inventions without losing them.

### Models: Their Attractiveness and Value.

If you intend to demonstrate or display your model it is always advisable to have it as nearly perfect as your means will permit, although usually details do not matter greatly if your model does the work required to demonstrate its point.

Practically all inventions have to be thoroughly gone over and the manufacturing details worked out. The inventor is not supposed to be familiar with manufacturing methods, so the invention is put into the hands of those who are, to be refined and developed on a manufacturing basis.

The value of an attractive model is hard to estimate. Often it is the means of creating a sale where otherwise, if the model were a crude affair and did not strike the fancy of the prospective purchaser or investor, it would be diffi-

cult to retain his interest, though it may at first have been easily won, and the result might end in failure.

### How to Raise Money to Apply for Patent.

Often the inventor, after evolving his idea and bringing it to a state where he is ready to apply for patent, finds himself without the essential funds to do so. There are, however, several ways in which the desired finances may be obtained.

First: He may arrange with some individual—friend, business man or broker—or some company to advance the money to enable him to file his application, perfect his model, etc., and to give in return for this advance a percentage of the gross amount received from the sale of the invention after it is marketed. This is usually about 25 per cent.

Second: He may make an absolute assignment of a certain territory (to be mutually agreed upon) to the second party as his share of the invention for the advanced funds.

Third: He may assign an interest in the whole invention and hold this jointly with the assignee. In this case the agreement must be drawn up with utmost care.

These various methods and forms of agree-

## PERFECTING AND PATENTING 13

ment will be taken up at length in later chapters.

Of course an invention is worthless unless you are protected by at least a patent application. So do not let your invention lie idle; dispose of an interest and start it working and give yourself a chance to realize something on your idea.

## CHAPTER III

### HOW BEST TO DISPOSE OF A PATENT

#### **Selling Inventions Before Patent.**

It is bad policy to try to dispose of your invention before you have secured, or at least applied for, your patent. You cannot realize nearly so much on it. Naturally the chances assumed by the investor are considerable and consequently he will expect to buy your invention at a greatly reduced price unless the patent is assured. Hang on, if possible, until you at least get some claims allowed.

When the invention affects big money interests it is sometimes well to let it go quickly, but in the case of small inventions, especially the simple ones, wait until the patent is allowed before attempting to dispose of it.

#### **How to Protect Yourself.**

If you admit a second party and sell or give him an interest in your invention or patent, be

sure to have your contract stipulate that he cannot manufacture and sell or otherwise dispose of his interest without your written consent. No matter how small an interest a person may own, he can go ahead independently, without accounting to you in any manner for the profits he may derive, unless you have an agreement to the effect that in case he does manufacture or sell your invention he shall account to you for all profits obtained therefrom.

### **Some of My Experiences in Selling Patents.**

You cannot exercise too minute care as to agreements into which you may enter.

You will find people who will extend the most liberal and rosy offers. Personally I have found that the majority of such offers were *merely offers* with nothing substantial back of them—subterfuges to tie up the invention and cause delay and loss. On the other hand, I have found people who were anxious to secure an option on my patents. From experience I would not advise anyone to give an exclusive option unless paid a sufficient sum of money down to cover any loss he might sustain in the event of their not exercising the option. Again, I have been caught by accepting a small sum down and the balance in notes running four eight and twelve months.

The argument put up was plausible enough, but generally the first payment was all I ever received.

Be just as careful about entering into any agreement to place your invention or patent on royalty. It is always wise to have an experienced lawyer attend to such matters for you. There will be more on this subject of royalties.

### **Keeping Control of Your Invention.**

So long as you hold control of your invention you can do as you like with it, but as soon as you let go of sufficient interest to wrest control from your hands, you are at the mercy of others.

### **Losing Control.**

Never allow this to happen unless you secure a sum nearly equivalent to what you would take for the entire patent. If others really want to buy or invest they will not hesitate to pay a fair price unless they are scheming to gain control and then "squeeze" you out. It is preferable to accept a smaller amount and withdraw than to remain without control in your own proposition.

### **About Selling Agencies.**

As soon as your patent is issued and published you will be flooded with pamphlets and litera-

ture from selling agencies all over the country. I have found that few of these, if any, do very little actual selling of patents, but the inventor seems their legitimate prey and such agencies, after sending out attractive circulars, gilt-edged inducements and highly plausible and formal looking contracts (which appear to be all in favor of the inventor) and obtaining from him a payment of some sort on one pretext or another, suddenly lose their interest in the invention and drop it.

### **The Best Selling Agent.**

You yourself are your own best selling agent and if you follow the advice offered here you will not need the services of any such agency. You are better off without its "help."

In the first place, who is better qualified to handle an invention than its own originator? People prefer to deal with him as he knows his proposition from the ground up (or should) and is far more competent to explain its features than an intermediary who has had no real, practical experience with it. Who knows a child better than its own parents?

## CHAPTER IV

### PUSHING THE INVENTION TO SUCCESS

#### **Where the Real Work Begins.**

The first step to take toward disposing of your invention is to prepare the proposition for display as carefully as if you were marketing any other commodity. You may have spent time, money and thought on the invention itself, but managing the sale also requires time, money and thought—and the greatest care. From the financial standpoint this is where the real work begins.

#### **Advertisements that Bring Responses.**

In a case where the model is complete a small advertisement such as appears below, placed in a daily newspaper (this includes Sunday editions), usually brings the desired result:

I have a valuable invention. Want party with \$500 to take half interest. Demonstrating model ready. Investigate. Box .....

The price set should be sufficient to pay in part for the time, expense and trouble used in perfecting the invention. The investor who responds to this advertisement may be given half interest; the inventor pays for the patent and retains the balance.

If the model is not complete an advertisement like this may be inserted:

I have a new, valuable invention. Need financial assistance to patent and market. Liberal inducement for party with \$1500. This is good. Investigate. Box ....

### **About Advertising.**

It is not worth while to spend much money advertising an invention for sale. A few lines on the order of those given above, inserted in the large city newspapers—they usually have columns for this type of advertisement, sometimes known as “Business Opportunities”—will catch the eye of the man looking for patents or inventions to buy or invest in.

Most papers, especially trade papers, are glad to get a line on anything new in their field. By using a little diplomacy, passing out information in the proper direction and casually displaying your invention, you can secure much free advertising. If you intend to promote your invention yourself you cannot get too much advertising or publicity.

**Finding Buyers and Where to Find Them.**

Like everything else to be sold, inventions should be presented to those most likely to be interested. You would scarcely expect a manufacturer of glassware to take much interest in a device made of metal.

If your invention is an improvement on some article already on the market, the thing to do is to approach the manufacturer of the original article or the one to which your improvement applies.

If it has to do with machinery, get in touch with machinery manufacturers. You would, of course, select those manufacturing the particular kind of machinery on which your invention is to be used.

If it is a novelty or something that can be handled by agents, read the advertisements in the "Agents Wanted" columns of the newspapers. Probably you can effect a sale to some company handling other novelties and which is here looking for agents to sell them.

If the article is to be used for advertising purposes, get in touch with advertising men; they are always on the lookout for new and attractive ideas.

If it is adaptable for mail order purposes,

look for your buyer among the mail order houses.

If the invention is one for which there is a universal demand or can be made with little cost, you will be likely to find a buyer in the previously mentioned "Agents Wanted" column.

If it is a device requiring considerable outlay to manufacture, the capitalist is the man to see.

### **Correspondence and Circulars.**

You should have printed a neat circular bearing a cut of your invention and a clear, plainly worded description. This you will find of great help in many ways but particularly in corresponding with people too far away to call upon.

### **Using Trade Journals.**

Secure copies of trade journals of the class or field to which your invention relates. Select from the advertisements the names of manufacturers most apt to take notice of what you have. To each of these write a letter stating clearly why you think they should be interested and assure them an investigation would be worth their while. Have your letter brief but explanatory,

convincing and to the point, typewritten if possible and on business stationery.

### **Presenting Your Proposition.**

Before presenting your proposition try to determine in some way the approximate cost to produce in quantities, the selling price, the profit each article should bring, and the probable extent of its sale. Outline some kind of sales plan ; not that this makes much difference, but it shows the prospective buyer that you have been investigating details and that you are interested in your device beyond the mere inventing and disposing of it.

### **Knowledge of Your Subject.**

If you possess the means it is a good plan to have a few of the articles manufactured and determine in this way what they can be sold for and the profit each should bring. This will give you as complete a line on your proposition as you can well expect to get and it will also enable you to talk intelligently and with authority to your prospective purchaser. You will be more sure of your ground and will have a just valuation of your patent. Moreover, the patent is no longer in the experimental stage and the

buyer has a basis on which he can do some figuring.

### **Enthusiasm and Confidence.**

Know your device and be prepared to furnish at once any information asked for. Never appear *too* anxious to sell and never be too enthusiastic about the possibilities of your invention, but in a businesslike manner let it be understood that you are fully aware of the value of what you have to sell.

I say, "Never be too enthusiastic." There are varying degrees of enthusiasm, but enough to win and hold the other's attention and interest to the point of decision is the proper degree. Less may not secure action; more sometimes alarms the would-be buyer.

Above all, do not allow anyone to shake your confidence. This is often tried as a test of the inventor's own faith.

### **Estimating the Value of a Patent.**

It is difficult to state any one method by which the value of an invention or patent may be estimated with any degree of satisfaction, but the following table will be found helpful in determining approximate worth.

Approximate Sale	Approximate Mfg. Cost	Selling Expense	Sale Price	Profit on Each	Total Profit	Approximate Value of Patent
100,000	\$ .50 25.00	\$ .50 25.00	\$ 2.00 100.00	\$ 1.00 50.00	\$100,000 500,000	\$25,000 125,000
10,000						

This is allowing only 25 per cent of the probable net profit, which, however, is a fair basis on which to figure. It also leaves the purchaser or investor a handsome balance to which he is entitled.

This table is simply for the purpose of illustrating a method of arriving at the *approximate value* of an invention or patent and may be varied according to conditions. If the article is one of general consumption, naturally more will be sold than if it were something special to be used for special purposes only.

### Commercial Value.

You will, quite naturally, care more for the material value of your invention than for the fame or honor it may bring you. Remember then that the profits are in exact proportion to the usefulness and general adaptability of the article. Whether or not you deal with the public, the profits must come from the sale of the manufactured article. Before going to too great

## PUSHING INVENTION TO SUCCESS 25

expense, therefore, with your invention, ascertain its probable sale.

### **Requirement of a Successful Patent.**

There are many patents that have no pecuniary value. To be a success your device should already be in demand or be something for which a demand can be created; for, if it cannot be made to pay by manufacture, it is not worth your time and effort.

It must possess utility, whether it is a new device or an improvement on something already in use. It must be able to compete with devices of the same class already on the market and to do this it must be cheaper to manufacture, institute a saving in time or labor or perform a given amount of work more satisfactorily than similar devices. In some way or another it must prove itself superior to its predecessors.

## CHAPTER V

### ON SELLING

#### Copies of Patents.

You should order a supply of these before starting out to sell your invention. They answer many questions and are always a ready help. Copies are furnished by the Patent Office for 5 cents each, but do *not* send stamps in payment as they will not be accepted.

#### When to Sell.

The time to sell an invention is when it is new; as it becomes older you will find people skeptical of it. The less you display or show your device, whatever it may be and no matter how privately, the better until such time as you are ready to offer it for sale. And when you do offer it for sale be prepared to close with the first person who makes you a just or reasonable proposition.

Every time you refuse an offer you lessen

just so much the chances for a sale, yet you would not, of course, listen to or entertain a ridiculous offer or one that was not within the bounds of sense.

Above all else, keep going. "If at first you don't succeed . . .", etc. Do not sit back and rest and expect the invention, however excellent it may be, to sell itself. *You must push it!*

### **Working up to the Selling Point.**

When you are fully prepared to demonstrate your invention and have determined the amount you are going to ask for it, you are ready to meet prospective purchasers.

Once you have stated the amount you want, *do not in any case lower your price.* If your buyer is sincere and in earnest and not trying to cheat you but your price does not suit him, he will make you a counter proposition. Until he does, however, do not lower your price for the mere sake of selling; it will only tend to create suspicion.

### **What to Ask.**

When the counter proposition is extended you are in a fair way to consummate a deal. You must bear in mind that the buyer expects (and is entitled to) a profit and that he is assuming

all the trouble and expense of manufacturing and marketing.

It is policy to ask a little more than you expect to receive, as this leaves you a chance to drop somewhat in price during negotiations. Above all else, never let the buyer suspect your financial condition. Never let it be known how hard up you are even if you feel like consulting a fortune teller as to your next meal.

If an invention possesses merit it will sell at a fair price; if it does not, it is dear at any price. A man in need is tempted to sell at a sacrifice for the sake of immediate help—and be sorry ever after.

### **Undivided Interest.**

As a rule inventors are not in a position to market their inventions and so reap the full benefit of their labors. The consequence is that they start in by disposing of a small interest in the patent in order to secure sufficient funds to enable them to carry on its promotion. This may appear to be all right but it is a *serious mistake*.

Do not lose sight of the fact that each party holding an interest, no matter how small, in a patent, is entitled to manufacture and sell, license others to manufacture and sell, dispose

of state or county rights and proceed much as if he were the sole owner and, in fact, do as he pleases with his interest without consulting or accounting to his co-owners for any profits derived through his efforts. They are simply tenants in common, unless an agreement is drawn up by and between each and all the co-owners expressly making partners of all parties concerned.

When it is understood or intended that the patentee and assignee of an undivided interest are to become co-partners with the profits arising from the invention to be for their joint benefit, there must be a distinct agreement to this effect. Many inventors have lost their patents through not being careful in assigning an undivided interest.

### **Selling Outright.**

This is in many cases the best procedure, provided you are offered a reasonable and satisfactory price. After disposition of your invention you are left free and clear and, unhampered, can devote your time and effort to the development of other ideas.

On the other hand, if you own a first class patent with good broad claims, it will probably be to your advantage to hang on for a while.

Do not suffer a sacrifice by being in too great haste to sell.

If you wish to make a sale outright be sure that your model is in perfect working condition. Never mind about details—that will come later. What the prospective purchaser wants to see is a working device sufficiently perfected to give him a clear idea of its purpose.

## CHAPTER VI

### METHODS OF HANDLING

#### **About Manufacturing.**

Do not attempt to manufacture your invention yourself, especially if it is a complicated device or one requiring much capital to promote. If a company is formed that is a different matter but, unless you have ample means and wide experience in manufacturing and marketing, it is next to useless for you to undertake it. Pass this part of the work on to someone who thoroughly understands it.

#### **State or County Manufacturing Rights.**

On a simple invention and one that is easily manufactured or that does not require especially constructed machinery to turn out, selling State or County Manufacturing Rights is usually productive of satisfactory results.

This means the right to manufacture in certain states or counties in accordance with State

or County Sales Rights (explained later). Where you have disposed of the exclusive selling rights for a particular state or county you can, if you desire, also sell the manufacturing rights for the same territory. The manufacturer supplies the selling agent for that territory at the price agreed upon between you and the selling agent.

In following this plan it is advisable to supply the purchaser with a sample or a set of working drawings or patterns to enable him to start manufacturing with the least possible delay. This always tends to help the inventor, as a purchaser will, in most cases, take favorably to a proposition if he is assured that he can start manufacturing with little delay or expense.

### **Special Manufacturing Rights.**

Where a patented improvement is adaptable for several different purposes or for the same purpose on several different articles of manufacture, it is then possible to sell such rights to manufacturers of specified articles. For instance, in rubber goods one company holds the manufacturing rights for rubber combs, another for rubber boots, another for rubber coats, another for tires, another for rubber hose, etc. If

your invention can be used on or is adaptable to one or more of these, the manufacturers producing them may be licensed to turn it out.

Rubber is here cited only as an illustration; other lines apply equally well.

### **State or County Sales Rights.**

Where the inventor wishes to market his invention himself but is handicapped for funds, selling State or County Sales Rights for a specified territory is an excellent plan. It furnishes him with the necessary capital to produce his device and relieves him of the worry of finding a market. It is quite easy, from a selling standpoint, to interest people in a promising patented article.

Your contract should stipulate the sum to be paid for the desired territory, the price at which you are to furnish the manufactured article and the quantity the Sales Rights purchaser is to take quarterly or yearly. The territory to which he is to confine his operations should also be stipulated.

In connection with the foregoing plan arrangements may be made as follows: Demand a certain sum for the Sales Rights and then, as the buyer or agent orders the manufactured articles from you or from the manufacturer, allow him

a rebate on each article ordered until he has been reimbursed in full for the amount paid for his territory.

By this method you secure immediate capital, the territorial sales right really costs the purchaser (ultimately) nothing and everyone is satisfied. But be sure to have your contract stipulate that, should he fail to order a sufficient quantity of the manufactured article within a given time so the rebate agreed upon would cover the amount he paid for his territory, the balance of the amount paid is to be forfeited to you. This, as you can see, will stimulate his sales efforts because he will not want to lose his investment.

### Royalty Contracts.

A good royalty contract relieves the inventor of all the care, time and expense of marketing—and this means a whole lot in bringing out a new device.

An invention worked on royalty, providing the contract is strong enough, will often net the inventor a far greater return in the end than an outright sale. Numerous inventions are paying their originators thousands of dollars annually in royalties. Much depends, of course,

on the class of the invention and the ultimate sale of the manufactured article.

When placing your invention on this basis be sure that those with whom you place it are reliable and responsible and, as royalty contracts are sometimes very deceptive, great care should be exercised in drawing them up.

### **Payments on Royalty Contracts.**

On a royalty arrangement be careful to stipulate in the contract the minimum quantity of the article to be manufactured or the minimum amount of royalty that is to be paid quarterly, with a forfeiture of the contract should the quantity turned out or the amount paid fall below that so stipulated.

Have a clause inserted in your contract stating that, in event of infringement suit, the purchasing parties are to furnish the finances to prosecute or defend them, deducting the cost from the royalties as they become due. They should, however, be allowed to hold back or deduct only one-half of the amount of the royalties quarterly until such time as they become repaid for the advance. Thereafter you are to receive your full royalty as agreed upon.

Have your contract state that all money received as damages in event of infringement suit

is to be equally divided between you after cost of prosecution or defense has been deducted.

It is usually advisable to demand, as a matter of good faith, a payment down equivalent to the amount of the minimum royalties for a period of one year. This works to advantage in two ways: It assures you your first year's royalties and affords the other party to the contract an opportunity to start the manufacture of your invention in an economical manner.

Although it is customary to grant the prospective manufacturer from one to three months to get ready to produce, the time depends entirely on circumstances—the complication of the device, perhaps, or other reasons.

### Cash vs. Promises.

In no case would I ever advise placing an invention on royalty without a reasonable initial payment—cash down. You will find any number of possible purchasers presenting the most glowing promises, offering as high as 25 to 40 per cent royalty if you will place your invention with them. But with a straight contract 10 to 15 per cent of the wholesale selling price is fair and equitable and those who are in earnest will recognize the justice of your demand for an initial cash payment. Unless you insist

on this you run the risk of finding your invention shelved.

### **Figuring Royalties.**

Estimate carefully and as accurately as possible the probable number of sales (see Table again); learn the cost to manufacture and figure the profit to go to the manufacturer.

When you have thus determined, as nearly as you can, the price at which the article can be sold then ask, as your royalty fee (for the exclusive rights) about 15 per cent of the net wholesale selling price. If exclusive rights are not contracted for, about 10 per cent of the net wholesale selling price is reasonable.

### **Organizing Companies.**

If an invention is very complicated and requires considerable capital to manufacture and market, it is often best to organize a company to promote it.

Here, though, the inventor must exercise the greatest precaution in order to thoroughly protect himself; it is an easy matter to so manipulate affairs as to "freeze" him out and rob him of his just due.

In the first place never, if you can possibly avoid it, make an absolute assignment to a cor-

poration. Grant the corporation the sole and exclusive right to manufacture and grant the articles covered by your patent, *but keep the patent in your own name.*

If, for any reason, you do relinquish control, see that you receive for it a reasonable amount in cash—say 30 per cent—and the balance in fully paid and non-assessable stock.

Also secure an agreement whereby, should the company meet financial disaster or bankruptcy, their rights in your patent cease and the patent reverts to you. This protects you and may save you any amount of time, trouble, and expense, for as long as you maintain this hold upon your invention and patent you are safe.

It is not always possible to make such an agreement but a good attorney should be able to safeguard you on this point.

### **A Friendly Danger Signal.**

Have you by now reached the conclusion that no one is to be trusted? This is not at all the case, but I have had sad experiences on numerous occasions and know just the kind of people you are likely to meet (I expect you have already met some of them) and the kind of propositions you will have the opportunity to consider. So I have placed the foregoing para-

graphs out like a danger signal placed on the walk when a safe is being hauled up the front of a building. You *can* walk there—it is a public street and no one can stop you—but you do it at your own risk and it is much safer to go around.

So you *can* enter into agreements and contracts to do many different things and you *might* emerge triumphantly, but it is wiser to choose the surely safe way and run no unnecessary risk.

## CHAPTER VII

### MISCELLANEOUS

#### Pitfalls to Escape.

Never sign a patent application jointly with another party unless that party is actually a co-inventor. If you do so that patent is void.

Be careful of those who seek to purchase an undivided interest unless it is stipulated that all the profits are to be held jointly and for your mutual benefit.

Never accept notes in payment for your patent unless you *know* that either the person who signs or the one who endorses them is reliable and responsible. It is always best to accept only cash or secured paper which can be negotiated.

Be cautious about showing your invention until your application for patent has been filed.

Have a care in assigning your patent to a proposed corporation for stock consideration. You can very readily lose control of your invention and perhaps lose altogether if you are un-

fortunate enough to be dealing with unscrupulous people who wish to take advantage of you.

If you must sell an interest in order to raise funds to apply for patent, be sure to have stipulated in the agreement that the purchaser cannot sell, dispose of or encumber his interest without your written consent.

Be careful in giving an option on your invention as, some options, while appearing all right on the face, practically amount to an assignment.

Never give an option without a reasonable amount paid down and have it stipulated in the contract or agreement that it is not to be put on record and that if it *is* put on record the option is void. You may find yourself in serious difficulty if this is not insisted upon.

Do not place too much confidence in those who appear to be your friends. Remember, when you hold control of your invention you hold everything; when you lose control you have nothing.

Never leave sketches or drawings with anyone pretending to be interested in your invention, especially if the patent has not yet been applied for. Good inventions have been known to become lost through carelessness in this respect and too much confidence in humanity.

Beware of those who paint glowing pictures with promises of a big block of stock in a company or corporation which they intend to form. It generally happens that when the company is incorporated and the stock issued the artists grow tired and the picture is never finished. Valuable patents have been lost in just this manner. Better that you should accept a smaller sum for your patent than lose control of it in this way.

### To Detect Curiosity Seekers.

This is a class of people who answer every advertisement they see regarding inventions for sale or capital wanted. Waste no time on them. They are constantly looking for propositions without the least intention of buying and probably could not buy if they had the inclination. Leave them strictly alone as the time spent with them may be used to better advantage in other directions.

If you do much advertising you will find that many replies come from business chance brokers looking for an opportunity to make a commission.

Before granting an interview to anyone try to find out who he is; look up his financial standing; learn his occupation (the city or telephone

directories or the commercial rating books will usually furnish this information). You can then judge whether he is merely a curiosity seeker or is in a position to seriously consider making an investment in what you have to offer.

The following, taken from "Rules of Practice" issued by the United States Patent Office, will prove of value to the inventor.

### **What May be Patented.**

"A patent may be obtained by any person who has discovered any new or useful art, machine, manufacture, or composition of matter, or any new or useful improvement thereof, not known or used by others in this country before his invention or discovery thereof, and not patented or described in any printed publication in this or any foreign country before his invention or discovery thereof, or more than two years prior to his application, and not patented in any country foreign to the United States on an application filed by him or his legal representatives or assigns more than twelve months before his application, and not in public use or on sale in the United States for more than two years prior to his application unless the same is proved to have been abandoned, upon

payment of fees required by law and other due proceedings.

"In case of the death of the inventor, the application will be made and the patent will issue to his executor or administrator. In such cases the oath required will be made by the executor or administrator.

"In case of assignment of the whole interest in the invention, or of the whole interest in the patent to be granted, the patent will, upon the request of the applicant embodied in the assignment, issue to the assignee; and if the assignee hold an undivided part interest, the patent will, upon like request, issue jointly to the inventor and assignee; but the assignment in either case must have first been entered of record, and at a day not later than the date of the final fee, and if it be dated subsequently to the execution of the application it must give the date of execution of the application or the date of filing or the serial number, so that there can be no mistake as to the particular invention intended. The application and oath must be signed by the actual inventor, if alive, even if the patent is to issue to the assignee.

"Joint inventors are entitled to a joint patent; neither of them can obtain a patent for an invention jointly invented by them. Indepen-

dent inventors of distinct and independent improvements in the same machine cannot obtain a joint patent for their separate inventions. The fact that one furnishes the capital and another makes the invention does not entitle them to make application as joint inventors.

#### **Marking Patented Inventions.**

"It shall be the duty of all patentees, their assigns and legal representatives and of all persons making or vending any patented article for or under them, to give sufficient notice to the public that the same is patented; either by fixing thereon the word 'Patented' together with the day and year the patent was granted, or when, from the character of the article, this cannot be done, by fixing to it or to the package wherein one or more of it is contained, a label containing a like notice; and in any suit for infringement, by the party failing so to mark, no damages shall be recovered by the plaintiff, except on proof that the defendant was duly notified of the infringement and continued, after such notice, to make, use or vend the article so patented. Any person who, in any manner, makes upon or affixes to any such patented article the words 'Letter Patent' or any word of like import with intent to imitate or counterfeit

the mark or device of the patentee without the license or consent of such patentee, or his assigns or legal representatives; or who, in any manner, marks upon or affixes to any unpatented article the word 'Patented' or any word purporting that the same is patented, for the purpose of deceiving the public, shall be liable, for every such offense, to a penalty of not less than \$100 with costs; one half of said penalty to the person who shall sue for the same and the other to the use of the United States, to be recovered by suit in any district of the United States within whose jurisdiction such offense may have been committed."

### **Assignments of Patent Title.**

Assignments of patents are not required to be under seal; the statutes simply provide that every patent or any interest therein shall be assignable in law by an instrument in writing.

The patentee or his assigns or legal representatives may, in like manner, grant and convey an exclusive right under the patent to the whole or any specified part of the United States.

"An assignment, grant or conveyance of a patent will be void as against a subsequent purchaser for a valuable consideration without no-

tice, unless recorded in the Patent Office within three months from the date thereof.

“Assignments which are made conditional on the performance of certain stipulations, such as the payment of money, if recorded in the Patent Office are regarded as absolute assignments until cancelled with the written consent of both parties and by the decree of a competent court.”

An *assignee* is one to whom is given or transferred for a consideration the whole interest or an undivided part of a whole interest in the original patent, this interest covering the entire United States. The assignment conferring this interest must be either written or printed and duly signed.

A *grantee* receives exclusive right under the patent to “make, use, and vend and to grant to others the right to make, use, and vend the thing patented within and throughout some specified part of the United States.” The inventor or patentee is excluded from all further right in the specified territory. The grant conferring this right must be either written or printed and duly signed.

A *licensee* receives an interest “less than or different from either of the other two.” The license may be oral, written, or printed. If written or printed it must be duly signed.

All of these must be witnessed by two other parties or sworn to before a notary public.

*Royalty* means the granting of exclusive rights under the patent to make, use, and vend a patented article within and throughout all or some specified part of the United States by paying to the inventor a stipulated amount on each article sold.

*Shop Rights* means the exclusive right to manufacture at a certain place, within a certain territory, upon payment to the inventor of an agreed amount. The article so manufactured may be sold throughout the entire United States.

*State or County Sales Rights* means the granting of exclusive or non-exclusive rights under the patent to manufacture or sell the article within a specified territory, the inventor being paid an agreed amount for this privilege.

All agreements in connection with such arrangements must be either written or printed, duly signed by the parties involved, and witnessed by two other parties or sworn to before a notary public.

## CHAPTER VIII

### SOME INVENTIONS THAT ARE NEEDED

A noiseless phonograph motor.

A *good*, cheap pocket pencil sharpener.

Efficient and *automatic* bread wrapping machine.

An automatic ice-chopping device for ice wagons.

Means for preserving trolley wire support poles.

A card mixing contrivance to automatically shuffle a deck of playing cards.

A slot machine that will emboss a name in a hat band is a novelty which should bring handsome returns.

An umbrella for mail carriers which can be carried open by some arrangement around the shoulders so as to leave both hands free.

A wall-papering machine—inexpensive—would make a stir and the man who brings it out will be blessed.

A pocket ticket holder for car tickets (as used

in some cities) to permit the withdrawing of only one ticket at a time.

An inside street indicator for street cars. This must indicate, at least half a block away, the next approaching street and must be automatic.

A cheap, easily attached arrangement that will automatically prevent dangerous escape-  
ment of gas.

A lock socket for incandescent lamps whereby the lamp cannot be removed without being de-  
stroyed.

A carburetor ~~that~~ will vaporize kerosene or crude oil. A fortune awaits the lucky inventor of this.

Amusement and advertising novelties are eagerly sought and find a ready market.

Games and toys have made fortunes and are always in demand. Those that can be sold in the 5 and 10 cent stores are big producers.

A machine that will automatically punch the holes and put the ring eyelets in side curtains for automobiles; this work is now done by hand and is very slow and tedious.

An egg crate that can be folded and packed into a small space when empty. This would save immeasurable space in shipping and ought to find a ready market.

A decided improvement over the present method of fastening women's garters to the hose; one that will not tear them, of course.

A quicker, easier and more simple method of fastening women's corsets.

A ventilating system wherein the chimney could be used to draw off foul air would be a vast improvement over present methods and if the correct arrangement were devised it would ventilate a building properly.

A practical safety device for elevators. This must *absolutely prevent* the elevator falling in case of accident. There is ample opportunity for improvement over present devices which are supposed to but do not always serve the purpose.

Improvements in moving picture machines. This art or business, while having made rapid strides in a few years, is still in its infancy and anything worth while that will help it grow faster or better is readily snapped up.

A box for safety razor blades that cannot be tampered with without detection.

A bottle for poisons whereby the contents can be immediately discovered by feeling the stopper or treated in some way to make it distinguishable in the darkest place. There are some oddly shaped bottles for such purposes but there

is still room for improvement for more and better ones.

A device for party line telephones to prevent a third person overhearing conversation between two others. In fact anything in telephone apparatus should find a ready market.

A scale that will at once show the amount and weight of a purchase. Better yet if the sale ticket shows both.

Anything that will lighten the burden of the office man is always in demand. Here are a few suggestions:

A substantial, practical but *inexpensive* postage-stamping machine.

An inkwell that will automatically clean the pen point and not allow the ink to evaporate.

A device to deaden the noise of typewriters, adjustable to any machine if possible. The man who puts this on the market (at a reasonable price) will confer a boon on mankind.

A practical envelope that cannot be tampered with or opened without detection.

A *simple* machine to fold and insert letters and circulars into envelopes and, if possible, also seal them.

Equally welcome is anything that will lighten the work of the housekeeper. For instance:

A non-heating handle for cooking utensils.

An adjustable *rolling* window screen.

A mustard pot that will not clog.

A water-power ice cream freezer would make a hit.

A cooking utensil that will not allow the odor of boiling cabbage, onions or other odorous foods to escape.

An arrangement for marking laundry without damaging the article marked; one that can be removed preferred.

An automatic device that will sound an alarm when the drip pan under the ice box is about to overflow.

A gas igniter which, when turned on, automatically ignites the gas without the use of matches or other lighters.

A cheap sewing machine with motor and attachments would find a warm welcome in private homes and among dressmakers.

A moderate priced, practical dish-washing machine. Several have been invented but the right idea is to have the dishes remain stationary while the drum containing the water revolves around them.

A folding dining room in which the table can be pulled out from the side wall and the leaves inserted automatically. These folding rooms are used extensively on the western coast and

any new idea that can be adapted to them meets with ready attention.

A refrigerator which, by the use of a small motor and an ammonia tank, would keep itself cool without ice. The ammonia could be run off below the trap in the sink waste pipe, thus eliminating any disagreeable odor.

Another refrigerator could have a series of funnel-shaped pipes (very small) with openings at the small end which points inward. Air pumped through these by a small motor would take the place of ice or ammonia.

The list is practically endless. These are just a few ideas which have come to my mind and which I am more than glad to here offer for your further thought.

## CHAPTER IX

### FOREIGN PATENTS

#### **Money in Foreign Patents.**

There is no question but that worth while, practical inventions brought out in the United States will find a ready market in foreign countries, especially in the principal countries such as Canada, Great Britain, France, Italy, Germany, Russia, Spain, Austria, the Scandinavian and some of the South American countries.

Foreign manufacturers and capitalists entertain a great deal of respect and admiration for American inventors and are on the lookout for any meritorious inventions they may bring out. They watch the patent records closely and whenever they run across an invention that catches their eye and arouses their interest, they are quick to get in touch with the inventor. They are wise enough to know that no other investment is so productive as a first class invention properly handled and that oftentimes it is the foundation of a fortune.

The chances of selling outright are perhaps not so favorable as they are in this country, but a good proposition, placed on royalty with a fair amount down, in foreign countries generally results in a handsome income for the inventor and he is reasonably certain of being given a square deal, as patent sharks and others seeking a "good thing" are almost unknown abroad.

### **A Mistake to Neglect Them.**

I have found that inventors generally neglect their foreign applications entirely. They have the impression that obtaining a foreign patent is an expensive procedure, entailing a tremendous expenditure of time and money. This is a big mistake; foreign patents are quite as easily handled, and in many cases more easily handled, than a United States patent. The same method of disposal may be followed and will seldom fail to bring gratifying results. In the majority of cases the entire matter can be managed by correspondence.

### **Obtaining Money to Apply for Foreign Patent.**

You proceed much as you would to obtain money for a United States patent, only in the matter of foreign patents any interest that you

retain generally results in a clear and frequently unexpected profit.

The outcome is so altogether worth this extra attention that I strongly advise every inventor to take the few additional steps to secure the necessary money to apply for foreign patent in those countries where he wishes protection.

You can well afford to be liberal with whoever advances the funds. Concede him a half interest in the foreign patents in exchange for sufficient money to apply for them and to cover the expenses for both of you to go abroad. It is always advisable to go over personally and be on the ground while negotiations are under way.

### **Realizing on Foreign Patents.**

By maintaining your patent as a whole instead of splitting it up or dividing its interest among different holders, you stand a better chance of realizing a larger amount from its sale. It is much easier to handle and can be disposed of more readily if the entire interest can be transferred to the purchaser.

Many investors will not consider a patent unless they are able to secure entire interest. You cannot blame them for this, for, after all, the chief value of a patent, so far as its commercial

possibilities are concerned, is in the monopoly it creates. The amount offered in case of a divided interest would be practically nothing compared with what you should receive and would probably be offered for sole interest.

### Where Inventors Lose Out.

Through neglect or oversight many inventors lose their opportunity of obtaining valid patents in foreign countries. It is not necessary to wait until your patent is issued in the United States before proceeding with your foreign application. In fact, to secure its validity, it is advisable—and necessary in most foreign countries—to make application *before* the United States patent is issued.

Neither is it necessary to wait until your patent is issued in order to proceed with its sale. Nearly all of my inventions have been sold before any claims were even allowed.

Of course you cannot expect to be paid as much for your invention where the application is only under way as when your patent has been granted, but it is sometimes advisable to dispose of it in the quickest way possible, especially where big money interests are affected.

### The International Convention.

The Articles of Agreement of the International Convention provide that foreign application may be filed and a valid patent obtained in foreign countries on inventions already patented in the United States, provided the application is filed within one year after filing of application in the United States.

Under the regulations of the International Convention all foreign patents lapse with the expiration of the terms of the original patent.

The following countries are parties to the International Convention:

United States of America	Australia
Great Britain	New Zealand
France	Japan
Belgium	Ceylon
Italy	Trinidad
Spain	Tunis
Portugal	Mexico
Norway	Cuba
Sweden	Brazil
Denmark	Dominican Republic
Netherlands	Germany
Switzerland	Austria
	Hungary

### Costs, Terms and Markets.

The cost of application, the time limit for working and the term or life of a patent vary greatly in different countries. Your Patent At-

torney will furnish you with detailed information regarding any special country or countries in which you may be particularly interested.

It is advisable to study closely the different industries of these countries in order to select those in which your invention may be most needed or find the readiest sale. If it is an improvement in manufacturing machinery, for instance, you would not make your application in places devoted to agriculture; if it had to do with mining you would pick out the mining countries.

These things require a great deal of application and search for information. In the condensed table following I am giving you merely the terms of patents, their approximate cost (which includes in each case one set or sheet of drawings) and the population. Of course Patent Attorneys' fees differ, but the figures given are average.

Also, you appreciate that there is not now—and will not be for some time—any accurate determination of the present population of certain of the countries in this list, especially England and those on the European Continent. The figures given here are based on those compiled shortly before the war and are the latest obtainable.

## FOREIGN PATENTS

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Country	Term (Years)	Cost (\$)	Population
Canada . . . . .	6-12-18	40	8,000,000
Great Britain . . . . .	14	85	46,065,800
(Embracing England, Ireland, Scotland, Wales)			
Belgium . . . . .	20	60	7,570,400
France . . . . .	15	80	39,061,500
(Including Colonies)			87,429,100
Italy . . . . .	6	80	37,388,000
Spain . . . . .	20	75	20,356,000
(Including Colonies)			21,350,400
Portugal . . . . .	15	125	5,438,700
Norway . . . . .	15	80	2,459,000
Sweden . . . . .	15	80	5,680,000
Denmark . . . . .	15	80	2,775,000
Holland . . . . .	15	100	6,500,000
Switzerland . . . . .	15	65	3,750,000
Germany . . . . .	15	85	60,640,000
Austria . . . . .	15	85	28,000,000
Hungary . . . . .	15	85	20,250,000
Russia . . . . .	15	125	175,137,000
Japan . . . . .	15	125	53,700,800
China . . . . .	..	125	413,000,000
India . . . . .	14	85	300,000,000
Australia . . . . .	14	125	5,125,000
New Zealand . . . . .	14	85	1,010,400
Cuba . . . . .	17	160	2,406,200
Mexico . . . . .	20	175	15,160,370
Brazil . . . . .	15	190	24,400,000
Argentine . . . . .	5	130	7,470,870
Chile . . . . .	10	280	5,000,000
Peru . . . . .	10	225	4,500,000
Venezuela . . . . .	5	225	2,811,000
	10	275	
	15	300	
Paraguay . . . . .	10	550	800,000
Uruguay . . . . .	3-6-9	450	1,225,915

## CHAPTER X

### FORMS OF AGREEMENT

### ASSIGNMENTS

*WHEREAS, I, John Doe, of the City of Detroit, County of Wayne, State of Michigan, have invented certain new and useful improvements in washing machines, patents for which are about to be applied for, and*

*WHEREAS, William Roe, of the City of Dearborn, County of Wayne, State of Michigan, is desirous of obtaining an interest in said invention (or an interest in the profits derived from working said invention, whichever the case may be)*

*NOW THEREFORE, It is agreed that for and in consideration of the sum of one dollar (\$1) by each of the parties hereto paid to the other, the receipt of which is hereby acknowledged,*

*FIRST (Here state what the party to whom you are giving an interest has to do to fulfill his part of the agreement. State whether he has to furnish money for the model, patents, advertising to bring the invention before interested parties and anything else required of him).*

*SECOND, That the said John Doe, inventor and sole owner of said new and useful improvements in washing machines, in consideration of the stipulation contained above, agrees to pay to said William Roe (here insert the amount agreed upon, 25% of the net receipts derived from the working of the said inven-*

tion or the special territory to be allotted to him) *during the terms for which letters patent may be granted.*

*IN TESTIMONY WHEREOF the parties hereto have hereunto set their hands and seals this 21st day of January, A.D. 1914.*

(Signed) JOHN DOE  
WILLIAM ROE

(L.S.)  
(L.S.)

*Witness*

.....  
.....

If the patent has been granted your assignment agreement should read like this:

*WHEREAS, I, John Doe, of the City of Detroit, County of Wayne, State of Michigan, have invented certain new and useful improvements in washing machines for which I have obtained letters patent in the United States bearing date of ..... Number ..... (then continue as in foregoing form).*

If selling an undivided interest, insert in the agreement just before the paragraph "In Testimony Whereof" this clause:

*It is hereby mutually agreed by and between the parties hereto that neither party shall sell or dispose or otherwise encumber his interest without the written consent of the other party.*

In case of territory to be allotted your contract should read:

*SECOND, That the said John Doe, inventor and sole owner of said new and useful improvements in washing machines, in consideration of the stipulation mentioned above,*

*does hereby sell, assign, and transfer unto the said William Roe, the sole and exclusive right to manufacture and sell the said washing machine containing said improvements in the territory composed of (here state the extent and location of the territory to which you are conferring the rights) and nowhere else.*

If the patent has been granted, this should read:

*SECOND: That the said John Doe, being the sole owner of said invention and letters patent, in consideration of the stipulation above mentioned, (etc.).*

#### **Assignment of an Entire Interest in an Invention Before the Issue of Letters Patent.**

*WHEREAS, I ..... of ....., County of ....., and State of ..... have invented a certain new and useful improvement in ..... for which I am about to make application for letters patent of the United States; and*

*WHEREAS, ..... of ....., County of ....., State of ....., is desirous of acquiring an interest in said invention and in letters patent to be obtained therefor;*

*NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of ..... dollars to me in hand paid, the receipt of which is hereby acknowledged, I, the said ....., have sold, assigned and transferred and by these presents do sell, assign and transfer unto the said ..... the full and exclusive right to the said invention, as fully set forth and described in the specification prepared and executed by me on the ..... day of ....., 19.., preparatory to obtaining letters patent of*

the United States therefor; and I do hereby authorize and request the Commissioner of Patents to issue the said letters patent to the said ..... as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of the said ..... and his legal representatives.

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal this ..... day of ....., 19..  
..... (L.S.)

In presence of

.....  
.....

#### An Assignment of Entire Interest in Letters Patent.

WHEREAS, I ....., of ....., County of ....., State of ....., did obtain letters patent of the United States for an improvement in ....., which letters patent are numbered ..... and bear the date the ..... day of ....., in the year ....., and

WHEREAS, I am now the sole owner of said patent and of all the rights under the same; and

WHEREAS, ....., of ....., County of ....., State of ....., is desirous of acquiring the entire interest in the same,

NOW THEREFORE, to all whom it may concern, be it known that, for and in consideration of the sum of ..... dollars to me in hand paid, the receipt of which is hereby acknowledged, I, the said ..... have sold, assigned and transferred and by these presents do sell, assign and transfer unto the said ....., the whole right, title and interest in and to the said improvement in ..... and in and to the letters patent therefor aforesaid; the same to be held and en-

joyed by the said ....., for his own use and behoof and for the use and behoof of his legal representatives, to the full end of the term for which said letters patent are or may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at ....., in the County of ..... and State of ....., this ..... day of ....., 19...

.....(L.S.)

In presence of

.....  
.....

#### Assignment of an Undivided Interest in Letters Patent.

WHEREAS, I, ....., of ....., County of ....., State of ....., did obtain letters patent of the United States for an improvement in ....., which letters patent are numbered ....., and bear date the ..... day of ....., in the year ....., and

WHEREAS, ....., of ....., County of ....., State of ....., is desirous of acquiring an interest in the same;

NOW THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of ..... dollars to me in hand paid, the receipt of which is hereby acknowledged, I, the said ....., have sold, assigned, and transferred and by these presents do sell, assign, and transfer unto the said ....., the undivided one-half part of the whole right, title, and interest in and to the said invention and in and to the letters patent therefor aforesaid; the said undivided one-half

part to be held and enjoyed by the said ..... for his own use and behoof, and for the use and behoof of his legal representatives, to the full end of the term for which said letters patent are or may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at ....., in the County of ..... and State of ....., this ..... day of ....., 19...

.....(L.S.)

In presence of

.....  
.....

#### Assignment of Territorial Interest After Grant of Patent.

WHEREAS, I, ....., of ....., County of ....., State of ....., did obtain letters patent of the United States for improvement in ....., which letters patent are numbered ..... and bear date the ..... day of ....., in the year ....., and

WHEREAS, I am now the sole owner of the said patent and of all rights under the same in the below-recited territory; and

WHEREAS, ....., of ....., County of ....., State of ....., is desirous of acquiring an interest in the same;

NOW THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of ..... dollars to me in hand paid, the receipt of which is hereby acknowledged, I, the said ....., have sold, assigned, and transferred,

and by these presents do sell, assign, and transfer unto the said ....., all the right, title and interest in and to said invention, as secured to me by said letters patent, for, to, and in the State of ....., and for, to, or in other place or places; the same to be held and enjoyed by the said ..... within and throughout the above-specified territory but not elsewhere, for his own use and behoof, and for the use and behoof of his legal representatives, to the full extent of the term for which letters patent are or may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at ....., in the County of ..... and State of ....., this ..... day of ....., 19...

.....(L.S.)

In presence of

.....  
.....

**License Shop-Right.**

IN CONSIDERATION of the sum of ..... dollars, to be paid by the firm of ....., in the County of ....., State of ....., I do hereby license and empower the said ..... to manufacture in said ..... (or other place agreed upon) the improvement in ..... for which letters patent, Number ....., of the United States, were granted to me the ..... day of ....., in the year ....., and to sell the machine so manufactured throughout the United States to the full end of the term for which said letters patent are granted.

Signed at ....., in the County of ....., and State of ....., this ..... day of ....., 19..

.....(L.S.)

In presence of

.....  
.....

**License—Non-exclusive—With Royalty.**

THIS AGREEMENT made this ..... day of ....., 19.., between ..... of ....., County of ....., State of ....., party of the first part, and ....., of ....., County of ....., State of ....., party of the second part, witnesseth that

WHEREAS, letters patent of the United States, No. ...., for improvement in ....., were granted to the party of the first part on the ..... day of ....., 19..; and

WHEREAS, the party of the second part is desirous of manufacturing ..... containing said patented improvements;

NOW, THEREFORE, the parties have agreed as follows:

I. The party of the first part hereby licenses and empowers the party of the second part to manufacture, subject to the conditions hereinafter named, at their factory in ....., and in no other place or places, to the end of the term for which said letters patent were granted, ..... containing the patented improvements, and to sell the same within the United States.

II. The party of the second part agrees to make full and

true returns to the party of the first part, under oath, upon the first days of ..... and ..... in each year of all ..... containing the patented improvements manufactured by them.

III. The party of the second part agrees to pay the party of the first part ..... dollars as a license fee upon every ..... manufactured by said party of the second part containing the patented improvement; provided, that if said fee be paid upon the days provided herein for semi-annual returns, or within ..... days thereafter, a discount of ..... per cent shall be made from said fee for prompt payment.

IV. Upon failure of the party of the second part to make returns or make payment of license fees as herein provided for ..... days after the days herein named, the party of the first part may terminate this license by serving a written notice upon the party of the second part; but the party of the second part shall not thereby be discharged from any liability to the party of the first part for any license fees due at the time of the service of said notice.

IN WITNESS WHEREOF the parties above named have hereunto set their hands the day and year first above written at ..... in the County of ..... and the State of .....

(Signed) ..... (L.S.)

In presence of

.....  
.....

## CHAPTER X

The following tables, comprising towns in the United States containing a population of 7,000 or more inhabitants, rank of States according to population, and population by Counties should be found very helpful in estimating the value of your patent and in assigning State or County Rights. The figures are based on the Census of 1910—the latest taken.

### POPULATION

#### *Towns of 7000 or more inhabitants*

(Census of 1910)

Aberdeen, S. D.....	10,753	Antigo, Wis.....	7,196	Barre, Vt.....	10,734
Aberdeen, Wash.....	13,660	Appleton, Wis.....	16,773	Batavia, N. Y.....	11,613
Abilene, Tex.....	9,204	Archbald, Pa.....	7,194	Bath, Me.....	9,396
Adams, Mass.....	13,026	Ardmore, Okla.....	8,618	Baton Rouge, La.....	14,897
Adrian, Mich.....	10,763	Argenta, Ark.....	11,138	Battle Creek, Mich.....	25,265
Akron, O.....	69,067	Arkansas City, Kans.....	7,508	Bay City, Mich.....	45,166
Alameda, Cal.....	23,383	Arlington, Mass.....	11,187	Bayonne, N. J.....	55,545
Albany, Ga.....	8,190	Asbury Park, N. J.....	10,150	Beatrice, Neb.....	9,356
Albany, N. Y.....	100,253	Asheville, N. C.....	18,762	Beaumont, Tex.....	20,640
Albuquerque, N. M.....	11,020	Ashland, Ky.....	8,688	Beaver Falls, Pa.....	12,191
Alexandria, La.....	11,213	Ashland, Wis.....	11,591	Bedford, Ind.....	8,716
Alexandria, Va.....	15,329	Ashtabula, O.....	18,266	Bellaire, O.....	12,946
Allentown, Pa.....	51,913	Astoria, Ore.....	9,599	Belleville, O.....	8,238
Alliance, O.....	15,083	Atchison, Kans.....	16,429	Belleville, Ill.....	21,122
Alpena, Mich.....	12,706	Athens, Ga.....	14,913	Bellingham Wash.....	24,298
Alton, Ill.....	17,528	Athol, Mass.....	8,536	Beloit, Wis.....	15,125
Altoona, Pa.....	52,127	Atlanta, Ga.....	154,839	Belvidere, Ill.....	7,253
Amarillo, Tex.....	9,957	Atlantic City, N. J.....	46,150	Benton Harbor, Mich.....	9,185
Americus, Ga.....	8,063	Attleboro, Mass.....	16,215	Berkeley, Cal.....	40,434
Amesbury, Mass.....	9,894	Auburn, Me.....	15,064	Berlin, N. H.....	11,780
Amsterdam, N. Y.....	31,267	Auburn, N. Y.....	34,668	Bessemer, Ala.....	10,864
Anaconda, Mont.....	10,134	Augusta, Ga.....	41,040	Bethlehem, Pa.....	12,837
Anderson, Ind.....	22,476	Augusta, Me.....	13,211	Beverly, Mass.....	18,650
Anderson, S. C.....	9,654	Aurora, Ill.....	29,807	Biddeford, Me.....	17,079
Andover, Mass.....	7,301	Austin, Tex.....	29,860	Billings, Mont.....	10,031
Ann Arbor, Mich.....	14,817	Bakersfield, Cal.....	12,727	Biloxi, Miss.....	8,049
Annapolis, Md.....	8,609	Baltimore, Md.....	558,485	Binghamton, N. Y.....	48,443
Anniston, Ala.....	12,794	Bangor, Me.....	24,803	Birmingham, Ala.....	132,685
Ansonia, Conn.....	15,152	Barberton, O.....	9,410	Bisbee, Ariz.....	9,019

Bloomburg, Pa.	7,413	Chicakaska, Okla.	10,320	Dover, N. H.	13,247
Bloomfield, N. J.	15,070	Chillicothe, O.	14,508	Dover, N. J.	7,468
Bloomington, Ill.	25,768	Chippewa Falls, Wis.	8,893	Dubois, Pa.	12,623
Bloomington, Ind.	8,838	Chisholm, Minn.	7,684	Dubuque, Ia.	38,494
Bluefield, W. Va.	11,188	Cicero, Ill.	14,557	Duluth, Minn.	78,466
Blue Island, Ill.	8,043	Cincinnati, Ohio.	363,591	Dunkirk, N. Y.	17,221
Boise, Idaho.	17,358	Clarksburg, W. Va.	9,201	Dunmore, Pa.	17,615
Boone, Ia.	10,347	Clarksville, Tenn.	8,548	Durham, N. C.	18,241
Boston, Mass.	670,585	Claremont, N. H.	7,529	Duryea, Pa.	7,487
Boulder, Colo.	9,539	Cleburne, Texas.	16,364	Duquesne, Pa.	15,727
Bowling Green, Ky.	9,173	Cleveland, O.	550,663	East Chicago, Ind.	19,098
Braddock, Pa.	19,357	Clinton, Iowa.	20,577	East Cleveland, O.	9,179
Bradford, Pa.	14,544	Clinton, Mass.	13,075	East Hampton, Mass.	8,524
Brainard, Minn.	8,526	Cloquet, Minn.	7,031	East Hartford, Conn.	8,138
Brantree, Mass.	8,066	Coatsville, Pa.	11,084	East Liverpool, O.	20,387
Brazil, Ind.	9,340	Cœur D'Alene, Ida.	7,291	Easton, Pa.	28,523
Bridgeport, Conn.	102,054	Coffeyville, Kans.	12,687	East Orange, N. J.	34,371
Bridgeton, N. J.	14,209	Cohoes, N. Y.	24,709	East St. Louis, Mo.	58,547
Bridgewater, Mass.	7,688	Collinsville, Ill.	7,478	Eau Claire, Wis.	18,310
Bristol, Conn.	9,527	Colo. Springs, Colo.	29,078	Edwardsville, Pa.	8,407
Bristol, Pa.	9,256	Columbia, Pa.	11,454	Elgin, Ill.	25,976
Bristol, R. I.	8,565	Columbia, S. C.	26,319	Elizabeth, N. J.	73,409
Bristol, Tenn.	7,148	Columbus, Ga.	20,554	Elizabeth City, N. C.	8,412
Brockton, Mass.	56,878	Columbus, Ind.	8,813	Elkhart, Ind.	19,282
Brookline, Mass.	27,792	Columbus, Miss.	8,988	Elmira, N. Y.	37,176
Brownsville, Tex.	10,517	Columbus, Ohio.	181,511	El Paso, Tex.	39,279
Brunswick, Ga.	10,182	Concord, N. C.	8,715	El Reno, Okla.	7,872
Bucyrus, O.	8,122	Concord, N. H.	21,497	Elwood, Ind.	11,028
Buffalo, N. Y.	423,715	Conneaut, O.	8,319	Elyria, O.	14,825
Burlington, Ia.	24,324	Connellsburg, Pa.	12,845	Emporia, Kans.	9,058
Burlington, N. J.	8,336	Connersville, Ind.	7,738	Englewood, N. J.	9,924
Burlington, Vt.	20,468	Conshohocken, Pa.	7,480	Enfield, Conn.	9,719
Butler, Pa.	20,728	Corning, N. Y.	13,730	Enid, Okla.	13,799
Butte, Mont.	39,163	Corpus Christi, Tex.	8,222	Erie, Pa.	66,525
Cadillac, Mich.	8,375	Corsicana, Tex.	9,749	Escanaba, Mich.	13,194
Cairo, Ill.	14,548	Cortland, N. Y.	11,504	Eugene, Ore.	9,009
Cambridge, Mass.	104,839	Coshcocton, O.	9,603	Eureka, Cal.	11,845
Cambridge, O.	11,237	Council Bluffs, Ia.	29,292	Evanson, Ill.	24,978
Camden, N. J.	94,538	Covington, Ky.	53,270	Evansville, Ind.	69,746
Canandaigua, N. Y.	7,217	Cranston, R. I.	21,107	Eveleth, Minn.	7,036
Canton, Ill.	10,453	Crawfordsville, Ind.	9,371	Everett, Mass.	33,484
Canton, Ohio.	50,217	Crookston, Minn.	7,559	Everett, Wash.	21,814
Cape Girardeau, Mo.	8,475	Cumberland, Md.	21,839	Fairmont, W. Va.	9,711
Carbondale, Pa.	17,040	Dallas, Tex.	92,104	Fall River, Mass.	119,295
Carlisle, Pa.	10,303	Danbury, Conn.	20,234	Fargo, N. D.	14,331
Carnegie, Pa.	10,009	Danvers, Mass.	9,407	Faribault, Minn.	9,001
Carthage, Mo.	9,483	Danville, Ill.	27,871	Fayetteville, N. C.	7,045
Cedar Rapids, Ia.	32,811	Danville, Pa.	7,517	Findley, O.	14,858
Central Falls, R. I.	22,754	Danville, Va.	19,020	Fitchburg, Mass.	37,826
Centralia, Ill.	9,680	Davenport, Ia.	43,028	Flint, Mich.	38,550
Centralia, Wash.	7,311	Dayton, Ohio.	116,577	Florence, S. C.	7,057
Chambersburg, Pa.	11,800	Decatur, Ill.	31,140	Fond du Lac, Wis.	18,797
Champaign, Ill.	12,421	Dedham, Mass.	9,284	Fort Collins, Colo.	8,210
Chanute, Kans.	9,272	Defiance, O.	7,327	Fort Dodge, La.	15,543
Charleroi, Pa.	9,615	Dekalb, Ill.	8,102	Fort Madison, Ia.	8,900
Charleston, S. C.	58,833	Delaware, O.	9,076	Fort Scott, Kans.	10,463
Charleston, W. Va.	22,996	Denison, Tex.	13,632	Fort Smith, Ark.	23,975
Charlotte, N. C.	34,014	Denver, Colo.	213,381	Fort Wayne, Ind.	63,933
Chattanooga, Tenn.	44,604	Des Moines, Ia.	86,368	Fort Worth, Tex.	73,312
Chelsea, Mass.	32,452	Detroit, Mich.	465,766	Fostoria, O.	9,597
Chester, Pa.	38,537	Dickson City, Pa.	9,331	Framingham, Mass.	12,948
Cheyenne, Wyo.	11,320	Dixon, Ill.	7,216	Frankfort, Ind.	8,634
Chicago, Ill.	2,185,283	Donora, Pa.	8,174	Frankford, Ky.	10,465
Chicago Heights, Ill.	14,525	Dothan, Ala.	7,016	Franklin, Pa.	9,767
Chicopee, Mass.	25,401			Frederick, Md.	10,411

## POPULATION

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Freeport, Ill.	17,567	Hot Springs, Ark.	14,434	Latrobe, Pa.	8,777
Freemont, Nebr.	8,718	Houston, Tex.	78,800	Laurel, Miss.	8,465
Fremont, O.	9,939	Hudson, N. Y.	11,417	Laurium, Mich.	8,537
Fresno, Cal.	24,892	Huntington, Ind.	10,272	Lawrence, Kans.	12,374
Fulton, N. Y.	10,480	Huntington, W. Va.	31,161	Lawrence, Mass.	85,892
Gadsden, Ala.	10,557	Huntsville, Ala.	7,611	Lawton, Okla.	7,788
Gainesville, Tex.	7,624	Hutchinson, Kans.	16,364	Leavenworth, Kans.	19,363
Galesburg, Ill.	22,089	Hyde Park, Mass.	15,507	Lebanon, Pa.	19,240
Galion, O.	7,214	Independence, Kans.	10,480	Lead, S. D.	8,392
Galveston, Tex.	36,981	Independence, Mo.	9,859	Leadville, Colo.	7,508
Gardner, Mass.	14,699	Indianapolis, Ind.	233,650	Leominster, Mass.	17,580
Garfield, N. J.	10,213	Iola, Kans.	9,032	Lewiston, Me.	26,247
Gary, Ind.	16,802	Iowa City, Ia.	10,091	Lewiston, Pa.	8,166
Geneva, N. Y.	12,446	Iron Mountains, Mich.	9,216	Lexington, Ky.	35,099
Glens Falls, N. Y.	15,243	Ironton, O.	13,147	Lima, O.	30,508
Globe, Ariz.	7,083	Ironwood, Mich.	12,821	Lincoln, Ill.	10,893
Gloucester, Mass.	24,398	Irvinton, N. J.	11,877	Lincoln, Neb.	43,973
Gloucester, N. J.	9,462	Ishpeming, Mich.	12,448	Little Falls, N. Y.	12,273
Gloversville, N. Y.	20,642	Ithaca, N. Y.	14,802	Little Rock, Ark.	45,941
Goshen, Ind.	8,514	Jackson, Mich.	31,433	Lock Haven, Pa.	7,772
Grafton, W. Va.	7,563	Jackson, Miss.	21,262	Lockport, N. Y.	17,970
Grand Forks	12,478	Jackson, Tenn.	15,779	Logan, Utah.	7,522
Grand Island, Neb.	10,326	Jacksonville, Fla.	57,699	Logansport, Ind.	19,050
Grand Jct., Colo.	7,754	Jacksonville, Ill.	15,326	Long Beach, Cal.	17,809
Grand Rapids, Mich.	112,571	Jamestown, N. Y.	31,297	Long Branch, N. J.	13,298
Granite City, Ill.	9,903	Janesville, Wis.	13,984	Lorain, O.	28,883
Great Falls, Mont.	13,918	Jeanette, Pa.	8,077	Los Angeles, Cal.	319,198
Greeley, Colo.	8,179	Jefferson, Mo.	11,850	Louisville, Ky.	223,928
Green Bay, Wis.	25,236	Jeffersonville, Ind.	10,412	Lowell, Mass.	106,294
Greenfield, Mass.	10,427	Jersey City, N. J.	267,779	Ludington, Mich.	9,132
Greenville, Miss.	9,610	Johnson City, Tenn.	8,502	Lynchburg, Va.	29,494
Greenville, S. C.	15,741	Johnstown, N. Y.	10,417	Lynn, Mass.	89,336
Greenville, Tex.	8,850	Johnstown, Pa.	55,482	Macon, Ga.	40,665
Greensboro, N. C.	15,895	Joliet, Ill.	34,070	Madison, Wis.	25,531
Greenburg, Pa.	13,012	Jonesboro, Ark.	7,123	Mahoney City, Pa.	15,936
Griffin, Ga.	7,478	Joplin, Mo.	32,073	Malden, Mass.	44,404
Guthrie, Okla.	11,654	Kalamazoo, Mich.	39,437	Manchester, Conn.	13,641
Hackensack, N. J.	14,050	Kankakee, Ill.	13,986	Manchester, N. H.	70,063
Hagerstown, Md.	15,507	Kansas City, Kans.	82,331	Manistee, Mich.	12,381
Hamilton, O.	33,279	Kansas City, Mo.	248,381	Manitowoc, Wis.	13,027
Hammond, Ind.	20,925	Kearny, N. J.	18,659	Mankato, Minn.	10,365
Hancock, Mich.	8,981	Keene, N. H.	10,068	Mansfield, O.	20,768
Hannibal, Mo.	18,341	Kenosha, Wis.	21,371	Marblehead, Mass.	7,338
Hanover, Pa.	7,057	Kenton, O.	7,185	Marietta, O.	12,923
Harrisburg, Pa.	64,186	Keokuk, Ia.	14,008	Marinette, Wis.	14,610
Harrison, N. J.	14,498	Kewanee, Ill.	9,307	Marion, Ill.	7,093
Hartford, Conn.	98,915	Key West, Fla.	19,945	Marion, Ind.	19,359
Harvey, Ill.	7,227	Kingston, N. Y.	25,908	Marion, O.	18,232
Hastings, Nebr.	9,338	Knoxville, Tenn.	36,346	Marlborough, Mass.	14,579
Hattiesburg, Mass.	11,733	Kokomo, Ind.	17,010	Marshall, Tex.	11,452
Haverhill, Mass.	44,115	Lackawanna, N. Y.	14,549	Marshalltown, Ia.	13,374
Hazelton, Pa.	25,452	Laconia, N. H.	10,183	Martinsburg, W. Va.	10,698
Helena, Ark.	8,772	La Crosse, Wis.	30,417	Martins Ferry, O.	9,133
Helena, Mont.	12,515	Lafayette, Ind.	20,081	Marquette, Mich.	11,503
Henderson, Ky.	11,452	Lake Charles, La.	11,449	Massillon, O.	13,979
Herkimer, N. Y.	7,520	Lakewood, O.	15,181	Mason City, Ia.	11,230
Hibbing, Minn.	8,832	Lancaster, O.	13,093	Mattoon, Ill.	11,456
High Point, N. C.	9,525	Lancaster, Pa.	47,227	Maywood, Ill.	8,033
Hoboken, N. J.	70,324	Lansford, Pa.	8,321	McAlester, Okla.	12,954
Holland, Mich.	10,490	Lansing, Mich.	31,229	McKeesport, Pa.	42,694
Holyoke, Mass.	57,730	Laporte, Ind.	10,525	McKees Rocks, Pa.	14,702
Homestead, Pa.	18,713	Laramie, Wyo.	8,237	Meadville, Pa.	12,780
Hopkinsville, Ky.	9,419	Laredo, Tex.	14,855	Medford, Mass.	23,150
Hoquiam, Wash.	8,171	Larksville, Pa.	9,288	Medford, Ore.	8,810
Hornell, N. Y.	13,617	La Salle, Ill.	11,537	Melrose, Mass.	15,715

## INVENTOR'S MANUAL

Memphis, Tenn.	131,105	New Haven, Conn.	133,605	Pekin, Ill.	9,897
Menominee, Mich.	19,507	New Iveria, La.	7,499	Pensacola, Fla.	22,982
Meriden, Conn.	27,263	New Kensington, Pa.	7,707	Peoria, Ill.	66,950
Meriden, Miss.	23,285	New London, Conn.	19,659	Perth Amboy, N. J.	32,121
Merrill, Wis.	8,689	New Orleans, La.	339,075	Peru, Ill.	7,984
Methuen, Mass.	11,448	New Philadelphia, O.	8,542	Peru, Ind.	10,910
Michigan City, Ind.	19,027	Newport News, Va.	20,205	Petersburg, Va.	24,127
Middleboro, Mass.	8,214	Newport, Ky.	30,309	Philadelphia, Pa.	1,549,008
Middleboro, Ky.	7,305	Newport, R. I.	27,149	Philipsburg, N. J.	13,903
Middletown, Conn.	11,851	Newton, Kans.	7,862	Phoenix, Ariz.	11,134
Middletown, N. Y.	15,313	Newton, Mass.	39,806	Phoenixville, Pa.	10,743
Middletown, O.	13,152	New Rochelle, N. Y.	28,867	Pine Bluff, Ark.	15,102
Milford, Mass.	13,055	New York, N. Y.	4,766,883	Piqua, O.	13,388
Millvale, Pa.	7,861	Niagara Falls, N. Y.	30,445	Pittsburg, Kans.	14,755
Millville, N. J.	12,451	Niles, O.	8,361	Pittsburg, Pa.	533,905
Milton, Mass.	7,924	Norfolk, Va.	67,452	Pittsfield, Mass.	32,121
Milton, Pa.	7,460	Norristown, Pa.	27,875	Pittston, Pa.	16,267
Milwaukee, Wis.	373,857	North Adams, Mass.	22,019	Plainfield, N. J.	20,550
Minersville, Pa.	7,240	Northampton, Mass.	19,431	Plattsburg, N. Y.	11,138
Minneapolis, Minn.	301,408	Northampton, Pa.	8,729	Plymouth, Mass.	12,141
Mishawaka, Ind.	11,886	No. Attleboro, Mass.	9,562	Plymouth, Pa.	16,996
Missoula, Mont.	12,869	N. Braddock, Pa.	11,824	Pocatello, Ida.	9,110
Moberly, Mo.	10,923	Northbridge, Mass.	8,807	Pomona, Cal.	10,207
Mobile, Ala.	51,521	N. Tonawanda, N. Y.	11,955	Pontiac, Mich.	14,532
Moline, Ill.	24,199	Norwalk, O.	7,858	Port Arthur, Tex.	7,663
Monesson, Pa.	11,775	Norwich, Conn.	20,367	Port Chester, N. Y.	12,809
Montmouth, Ill.	9,128	Norwich, N. Y.	7,422	Port Huron, Mich.	18,863
Monongahela, Pa.	7,598	Norwood, Mass.	8,014	Port Jervis, N. Y.	9,564
Monroe, La.	10,209	Norwood, O.	16,185	Portland, Me.	58,571
Montclair, N. J.	21,550	N. Yakima, Wash.	14,082	Portland, Ore.	207,214
Montgomery, Ala.	38,136	Oakland, Cal.	150,174	Portsmouth, N. H.	11,269
Montpelier, Vt.	7,856	Oak Park, Ill.	19,444	Portsmouth, O.	23,481
Morgantown, W. Va.	9,150	Ogden, Utah.	25,580	Portsmouth, Va.	33,190
Morriston, N. J.	12,507	Ogdensburg, N. Y.	15,933	Pottstown, Pa.	15,599
Moundsville, W. Va.	8,918	Oil City, Pa.	15,657	Pottsville, Pa.	20,236
Mount Carmel, Pa.	17,532	Oklahoma City, Okla.	64,205	Poughkeepsie, N. Y.	27,936
Mt. Clemens, Mich.	7,707	Olean, N. Y.	14,743	Providence, R. I.	224,326
Mt. Vernon, Ill.	8,007	Old Forge, Pa.	11,324	Provo City, Utah.	8,925
Mt. Vernon, N. Y.	30,919	Olyphant, Pa.	8,505	Pueblo City, Colo.	44,395
Mt. Vernon, O.	9,087	Omaha, Neb.	124,096	Punxsutawney, Pa.	9,058
Muncie, Ind.	25,005	Oneida, N. Y.	8,317	Quincy, Ill.	36,587
Murphysboro, Ill.	7,485	Oneonta, N. Y.	9,491	Quincy, Mass.	32,642
Muscatine, Ia.	16,178	Orange, N. J.	29,630	Racine, Wis.	38,002
Muskegon, Mich.	24,062	Oshkosh, Wis.	33,062	Rahway, N. J.	9,337
Muskogee, Okla.	25,278	Oskaloosa, Ia.	9,466	Raleigh, N. C.	19,218
Nanticoke, Pa.	18,877	Ossining, N. Y.	11,480	Reading, Pa.	96,071
Nashua, N. H.	26,005	Oswego, N. Y.	23,368	Red Bank, N. J.	7,398
Nashville, Tenn.	110,364	Ottawa, Ill.	9,535	Redlands, Cal.	10,449
Natchez, Miss.	11,791	Ottawa, Kans.	7,650	Red Wings, Minn.	9,048
Natick, Mass.	9,866	Ottumwa, Ia.	22,012	Reno, Nev.	10,867
Naugatuck, Conn.	12,722	Owensboro, Ky.	16,011	Rensselaer, N. Y.	10,711
Negaunee, Mich.	8,460	Owosso, Mich.	9,639	Revere, Mass.	18,219
Nevada, Mo.	7,176	Paducah, Ky.	22,760	Richmond, Ind.	22,324
New Albany, Ind.	20,629	Palestine, Tex.	10,482	Richmond, Va.	127,628
Newark, N. J.	347,469	Palmer, Mass.	8,610	Riverside, Cal.	15,212
Newark, O.	25,504	Paris, Ill.	7,664	Roanoke, Va.	34,874
New Bedford, Mass.	96,652	Paris, Tex.	11,269	Rochester, Minn.	7,844
Newbern, N. C.	9,961	Parkersburg, W. Va.	17,842	Rochester, N. H.	8,868
New Brighton, Pa.	8,329	Parsons, Kans.	12,463	Rochester, N. Y.	218,149
New Britain, Conn.	43,916	Pasadena, Cal.	30,291	Rockford, Ill.	45,401
New Brunswick, N. J.	23,388	Passaic, N. J.	54,773	Rock Hills, S. C.	7,216
Newburg, N. Y.	27,805	Paterson, N. J.	125,600	Rock Island, Ill.	24,335
Newburyport, Mass.	14,949	Pawtucket, R. I.	51,622	Rock Island, Me.	8,174
New Castle, Ind.	9,446	Peabody, Mass.	15,721	Rocky Mount, N. C.	8,051
New Castle, Pa.	36,280	Peekskill, N. Y.	15,245	Rockville, Conn.	7,977

## POPULATION

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Rome, Ga.	12,099	Staunton, Va.	10,604	Ware, Mass.	8,774
Rome, N. Y.	20,497	St. Charles, Mo.	9,437	Warren, O.	11,081
Rutherford, N. J.	7,045	St. Cloud, Minn.	10,600	Warren, Pa.	11,080
Rutland, Vt.	13,546	St. Joseph, Mo.	77,403	Washington, D. C.	331,069
Sacramento, Cal.	44,696	St. Louis, Mo.	687,029	Washington, Ind.	7,854
San Angelo, Tex.	10,321	St. Paul, Minn.	214,744	Washington, Pa.	18,778
San Antonio, Tex.	96,614	Steelton, Pa.	14,246	Washington C. H., O.	7,277
San Diego, Cal.	39,578	Sterling, Ill.	7,467	Waterbury, Conn.	73,141
Saginaw, Mich.	50,510	Steubenville, O.	22,391	Waterloo, Ia.	26,693
Salem, Mass.	43,097	Stevens Point, Wis.	8,692	Watertown, Mass.	12,875
Salem, O.	8,943	Stillwater, Minn.	10,198	Watertown, N. Y.	26,730
Salem, Ore.	14,094	Stockton, Cal.	23,253	Watertown, S. D.	7,010
Salina, Kans.	9,688	Stoneham, Mass.	7,090	Watertown, Wis.	8,829
Salisbury, N. C.	7,153	Streator, Ill.	14,253	Waterville, Me.	11,458
Salt Lake City, Utah	92,777	Sunbury, Pa.	13,770	Watervliet, N. Y.	15,074
San Bernardino, Cal.	12,779	Suffolk, Va.	7,008	Waukegan, Ill.	16,968
Sandusky, O.	19,989	Summit, N. J.	7,500	Waukesha, Wis.	8,740
Sanford, Me.	9,049	Sumter, S. C.	8,109	Wausau, Wis.	16,560
San Francisco, Cal.	416,912	Superior, Wis.	40,384	Waycross, Ga.	14,485
San Jose, Cal.	28,946	Swissvale, Pa.	7,381	Waynesboro, Pa.	7,109
Santa Anna, Cal.	8,429	Syracuse, N. Y.	137,249	Webb, Mo.	11,817
Santa Barbara, Cal.	11,659	Tacoma, Wash.	83,743	Webster, Mass.	11,509
Santa Cruz, Cal.	11,146	Tamaqua, Pa.	9,462	Webster Groves, Mo.	7,080
Santa Monica, Cal.	7,847	Tampa, Fla.	37,782	Wellington, Kans.	7,034
Santa Rosa, Cal.	7,817	Tarentum, Pa.	7,414	Wellston, Mo.	7,312
Sapulpa, Okla.	8,283	Taunton, Mass.	34,259	Wellsville, O.	7,769
Saratoga Springs, N. Y.	12,693	Taylor, Pa.	9,060	Westbrook, Me.	8,281
Sangus, Mass.	8,047	Temple, Tex.	10,993	West Chester, Pa.	11,767
SaulteSte.Marie,Mich	12,615	Terre Haute, Ind.	58,157	Westerly, R. I.	8,696
Savannah, Ga.	65,064	Terrell, Tex.	7,050	Westfield, Mass.	16,044
Schnectady, N. Y.	72,826	Texarkana, Tex.	9,790	West Haven, Conn.	8,543
Scranton, Pa.	120,867	Tiffin, O.	11,893	W. Hoboken, N. J.	35,403
Seattle, Wash.	237,194	Titusville, Pa.	8,533	W. New York, N. J.	13,560
Sedalia, Mo.	17,822	Toledo, O.	158,497	West Orange, N. J.	10,980
Selma, Ala.	13,649	Tonawanda, N. Y.	8,290	W. Tampa, Fla.	8,258
Shamokin, Pa.	19,588	Topeka, Kans.	43,684	Weymouth, Mass.	12,895
Sharon, Pa.	15,270	Torrington, Conn.	15,483	Wheeling, W. Va.	41,641
Sharpsburg, Pa.	8,153	Traverse City, Mich.	12,115	White Plains, N. Y.	15,949
Shawnee, Okla.	12,474	Trenton, N. J.	96,815	Whitman, Mass.	7,292
Sheboygan, Wis.	26,398	Trinidad, Colo.	10,204	Wichita, Kans.	52,450
Shelbyville, Ind.	9,500	Troy, N. Y.	76,813	Wichita Falls, Tex.	8,200
Shenandoah, Pa.	25,774	Tucson, Ariz.	13,193	Wilkes Barre, Pa.	67,105
Sheridan, Wyo.	8,408	Tulsa, Okla.	18,182	Wilkinsburg, Pa.	18,924
Sherman, Tex.	12,412	Tuscaloosa, Ala.	8,047	Williamsport, Pa.	31,860
Shreveport, La.	28,015	Tyler, Tex.	10,400	Willimantic, Conn.	11,230
Sioux City,Ia.	47,828	Tyrone, Pa.	7,176	Wilmington, Del.	87,411
Sioux Falls, S. D.	14,094	Union, N. J.	21,023	Wilmington, N. C.	25,748
Somerville, Mass.	77,236	Uniontown, Pa.	13,344	Winchester, Ky.	7,156
South Amboy, N. J.	7,007	Urban, Ill.	8,245	Winchester, Mass.	9,309
South Bend, Ind.	53,684	Urbana, O.	7,739	Windler, Pa.	8,013
S. Bethlehem, Pa.	19,973	Utica, N. Y.	74,419	Winona, Minn.	18,583
South bridge, Mass.	12,592	Valdosta, Ga.	7,656	Winsted, Conn.	7,774
S. Norwalk, Conn.	8,968	Vallejo, Cal.	11,340	Winston, N. C.	17,167
South Omaha, Neb.	26,259	Vancouver, Wash.	9,300	Winthrop, Mass.	10,132
S. Portland, Me.	7,471	Van Wert, O.	7,157	Woburn, Mass.	15,308
South Sharon, Pa.	10,190	Vicksburg, Miss.	20,814	Woonsocket, R. I.	38,125
Spartanburg, S. C.	17,517	Vincennes, Ind.	14,895	Worcester, Mass.	145,986
Spokane, Wash.	104,402	Virginia, Minn.	10,473	Wyandotte, Mich.	8,287
Springfield, Ill.	51,678	Wabash, Ind.	8,687	Xenia, O.	8,706
Springfield, Mass.	88,926	Waco, Tex.	26,425	Yonkers, N. Y.	79,803
Springfield, Mo.	35,301	Wakefield, Mass.	11,404	York, Pa.	44,750
Springfield, O.	46,921	Walla-Walla, Wash.	19,364	Youngstown, O.	79,066
Spring Valley, Ill.	7,035	Wallingford, Conn.	8,690	Zanesville, O.	28,026
Stamford, Conn.	25,138	Waltham, Mass.	27,834		

## STATE POPULATION AND RANK

Rank	States	Census (1910)	Rank	States	Census (1910)
18	Alabama.....	2,138,093	11	New Jersey.....	2,537,167
47	Arizona.....	204,354	15	New Mexico.....	327,301
25	Arkansas.....	1,574,449	1	New York.....	9,113,279
12	California.....	2,377,549	16	North Carolina.....	2,206,287
33	Colorado.....	799,024	38	North Dakota.....	577,056
32	Connecticut.....	1,114,756	4	Ohio.....	4,767,121
48	Delaware.....	202,322	23	Oklahoma.....	1,657,155
34	Florida.....	751,139	36	Oregon.....	672,765
10	Georgia.....	2,609,121	2	Pennsylvania.....	7,665,111
46	Idaho.....	325,594	39	Rhode Island.....	542,610
3	Illinois.....	5,638,591	26	South Carolina.....	1,515,400
9	Indiana.....	2,700,876	37	South Dakota.....	583,888
15	Iowa.....	2,224,771	17	Tennessee.....	2,184,789
22	Kansas.....	1,609,949	5	Texas.....	3,896,542
14	Kentucky.....	2,289,905	42	Utah.....	373,351
24	Louisiana.....	1,656,388	43	Vermont.....	355,956
35	Maine.....	742,371	20	Virginia.....	2,061,162
27	Maryland.....	1,188,044	30	Washington.....	1,141,990
6	Massachusetts.....	3,366,416	28	West Virginia.....	1,221,119
8	Michigan.....	2,810,173	13	Wisconsin.....	2,333,860
19	Minnesota.....	2,075,708	50	Wyoming.....	145,965
21	Mississippi.....	1,797,114			Territories
7	Missouri.....	3,293,335	52	Alaska.....	64,356
41	Montana.....	376,053	44	District of Columbia	331,069
29	Nebraska.....	1,192,214	49	Hawaii.....	191,909
51	Nevada.....	81,875	31	Porto Rico.....	1,118,012
40	New Hampshire....	430,572			

# POPULATION BY COUNTIES

(Census of 1910)

## ALABAMA

Autauga.....	20,038	Dalla.....	53,401	Marion.....	17,495
Baldwin.....	18,178	Dekalb.....	28,261	Marshall.....	28,553
Barbour.....	32,728	Elmore.....	28,245	Mobile.....	80,854
Bibb.....	22,791	Escambia.....	18,889	Monroe.....	27,155
Blount.....	21,456	Etowah.....	39,109	Montgomery.....	82,178
Bullock.....	30,196	Fayette.....	16,248	Morgan.....	33,781
Butler.....	29,030	Franklin.....	19,369	Perry.....	31,222
Calhoun.....	39,115	Geneva.....	26,230	Pickens.....	25,055
Chambers.....	36,056	Greene.....	22,717	Pike.....	30,815
Cherokee.....	20,226	Hale.....	27,883	Randolph.....	24,659
Chilton.....	23,187	Henry.....	20,943	Russell.....	25,937
Choctaw.....	18,483	Houston.....	32,414	St. Clair.....	20,715
Clarke.....	30,987	Jackson.....	32,918	Shelby.....	26,949
Clay.....	21,006	Jefferson.....	226,476	Sumter.....	28,699
Cleburne.....	13,385	Lamar.....	17,487	Talladega.....	37,921
Coffee.....	26,119	Lauderdale.....	30,936	Tallapoosa.....	31,034
Colbert.....	24,802	Lawrence.....	21,984	Tuscaloosa.....	47,559
Conecuh.....	21,433	Lee.....	32,867	Walker.....	37,013
Coosa.....	16,634	Limestone.....	26,880	Washington.....	14,454
Covington.....	32,124	Lowndes.....	31,894	Wilcox.....	33,810
Crenshaw.....	23,313	Macon.....	26,049	Winston.....	12,855
Cullman.....	28,321	Madison.....	47,041		
Dale.....	21,873	Marengo.....	39,923		

## ARIZONA

Apache.....	9,196	Maricopa.....	34,488	Santa Cruz.....	6,766
Cochise.....	34,591	Mohave.....	3,773	Yavapai.....	15,996
Coconino.....	8,130	Navajo.....	11,491	Yuma.....	7,733
Gila.....	16,780	Pima.....	22,818		
Graham.....	23,547	Pinal.....	9,045		

## ARKANSAS

Arkansas.....	16,103	Drew.....	21,960	Lonoke.....	27,983
Ashley.....	25,268	Faulkner.....	23,708	Madison.....	16,056
Baxter.....	10,389	Franklin.....	20,638	Marion.....	10,203
Benton.....	33,389	Fulton.....	12,193	Miller.....	19,555
Boone.....	14,318	Garland.....	27,271	Mississippi.....	30,468
Bradley.....	14,518	Grant.....	9,425	Monroe.....	19,907
Calhoun.....	9,894	Greene.....	23,852	Montgomery.....	12,455
Carroll.....	16,829	Hempstead.....	28,285	Nevada.....	19,344
Chicot.....	21,987	Hot Spring.....	15,022	Newton.....	10,612
Clark.....	23,686	Howard.....	16,898	Ouachita.....	21,774
Clay.....	23,690	Independence.....	24,776	Perry.....	9,402
Cleburne.....	11,903	Izard.....	14,561	Phillips.....	33,535
Cleveland.....	13,481	Jackson.....	23,501	Pike.....	12,565
Columbia.....	23,820	Jefferson.....	52,734	Poinsett.....	12,791
Conway.....	22,729	Johnson.....	19,698	Polk.....	17,216
Craighead.....	27,627	Lafayette.....	13,741	Pope.....	24,527
Crawford.....	23,942	Lawrence.....	20,001	Prairie.....	13,853
Crittenden.....	22,447	Lee.....	24,252	Pulaski.....	86,751
Cross.....	14,042	Lincoln.....	15,118	Randolph.....	18,987
Dallas.....	12,621	Little River.....	13,597	St. Francis.....	22,548
Dresha.....	15,274	Logan.....	26,350	Saline.....	16,657

## INVENTOR'S MANUAL

Scott.....	14,302	Sharp.....	11,688	Washington.....	33,889
Searcy.....	14,825	Stone.....	8,946	White.....	28,574
Sebastian.....	52,278	Union.....	30,723	Woodruff.....	20,049
Sevier.....	16,616	Van Buren.....	13,509	Yell.....	26,323

## CALIFORNIA

Alameda.....	246,131	Marin.....	25,114	San Mateo.....	26,585
Alpine.....	309	Mariposa.....	3,956	Santa Barbara.....	27,738
Amador.....	9,086	Mendocino.....	23,929	Santa Clara.....	83,530
Butte.....	27,301	Merced.....	15,148	Santa Cruz.....	26,149
Calaveras.....	9,171	Modoc.....	6,191	Shasta.....	18,920
Colusa.....	7,732	Mono.....	2,042	Sierra.....	4,098
Contra Costa.....	31,674	Monterey.....	24,146	Siskiyou.....	18,801
Del Norte.....	2,417	Napa.....	19,800	Solano.....	27,559
Eldorado.....	7,492	Nevada.....	14,955	Sonoma.....	48,394
Fresno.....	75,657	Orange.....	34,436	Stanislaus.....	22,522
Glenn.....	7,172	Placer.....	18,237	Sutter.....	6,328
Humboldt.....	33,857	Plumas.....	5,259	Tehama.....	11,401
Imperial.....	13,591	Riverside.....	34,696	Trinity.....	3,301
Inyo.....	6,974	Sacramento.....	67,806	Tulare.....	35,440
Kern.....	37,715	San Benito.....	8,041	Tuolumne.....	9,979
Kings.....	16,230	San Bernardino.....	56,706	Ventura.....	18,347
Lake.....	5,526	San Diego.....	61,665	Yolo.....	13,926
Lassen.....	4,802	San Francisco.....	416,912	Yuba.....	10,042
Los Angeles.....	504,131	San Joaquin.....	50,731		
Madera.....	8,368	San Luis Obispo.....	19,383		

## COLORADO

Adams.....	8,892	Garfield.....	10,144	Morgan.....	9,577
Arapahoe.....	10,263	Gilpin.....	4,131	Otero.....	20,201
Archuleta.....	3,302	Grand.....	1,862	Ouray.....	3,514
Baca.....	2,516	Gunnison.....	5,897	Park.....	2,492
Bent.....	5,043	Hinsdale.....	646	Phillips.....	3,179
Boulder.....	30,330	Huerfano.....	13,320	Pitkin.....	4,566
Chaffee.....	7,622	Jackson.....	1,013	Prowers.....	9,520
Cheyenne.....	3,687	Jefferson.....	14,231	Pueblo.....	52,223
Clear Creek.....	5,001	Kiowa.....	2,899	Rio Blanco.....	2,332
Conejos.....	11,285	Kit Carson.....	7,483	Rio Grande.....	6,563
Costilla.....	5,498	La Plata.....	10,812	Routt.....	7,561
Custer.....	1,947	Lake.....	10,600	Saguache.....	4,160
Delta.....	18,688	Larimer.....	25,270	San Juan.....	3,063
Denver.....	213,381	Las Animas.....	33,643	San Miguel.....	4,700
Dolores.....	642	Lincoln.....	5,917	Sedgwick.....	3,061
Douglas.....	3,192	Logan.....	9,549	Summit.....	2,003
Eagle.....	2,985	Mesa.....	22,197	Teller.....	14,351
El Paso.....	43,321	Mineral.....	1,239	Washington.....	6,002
Elbert.....	5,331	Montezuma.....	5,029	Weld.....	39,177
Fremont.....	18,181	Montrose.....	10,291	Yuma.....	8,499

## CONNECTICUT

Fairfield.....	245,322	Middlesex.....	45,637	Tolland.....	26,459
Hartford.....	250,182	New Haven.....	337,282	Windham.....	48,361
Litchfield.....	70,260	New London.....	91,253		

## DELAWARE

Kent.....	32,721	Newcastle.....	123,188	Sussex.....	46,413
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## DISTRICT OF COLUMBIA

The District.....					331,069
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## POPULATION BY COUNTIES

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## FLORIDA

Alachua.....	34,305	Hillsboro.....	78,374	Orange.....	19,107
Baker.....	4,805	Holmes.....	11,557	Osceola.....	5,507
Bradford.....	14,090	Jackson.....	29,821	Palm Beach.....	5,577
Brevard.....	4,717	Jefferson.....	17,210	Pasco.....	7,502
Calhoun.....	7,465	Lafayette.....	6,710	Polk.....	24,148
Citrus.....	6,731	Lake.....	9,509	Putnam.....	13,096
Clay.....	6,116	Lee.....	6,294	St. John.....	13,208
Columbia.....	17,689	Leon.....	19,427	St. Lucie.....	4,075
Dade.....	11,933	Levy.....	10,361	Santa Rosa.....	14,897
De Soto.....	14,200	Liberty.....	4,700	Sumter.....	6,696
Duval.....	75,163	Madison.....	16,919	Suwanee.....	18,603
Escambia.....	36,549	Manatee.....	9,550	Taylor.....	7,103
Franklin.....	5,201	Marion.....	26,941	Volusia.....	16,510
Gadsden.....	22,198	Monroe.....	21,563	Wakulla.....	4,802
Hamilton.....	11,825	Nassau.....	10,525	Walton.....	16,460
Hernando.....	4,997			Washington.....	16,403

## GEORGIA

Appling.....	12,388	Elbert.....	24,125	Milton.....	7,239
Baker.....	7,973	Emanuel.....	25,140	Mitchell.....	22,114
Baldwin.....	18,354	Fannin.....	12,574	Monroe.....	20,450
Banks.....	11,244	Fayette.....	10,966	Montgomery.....	19,638
Bartow.....	25,388	Floyd.....	36,736	Morgan.....	19,717
Ben Hill.....	11,863	Forsyth.....	11,940	Murray.....	9,763
Berrien.....	22,772	Franklin.....	17,894	Muscogee.....	36,227
Bibb.....	56,646	Fulton.....	177,733	Newton.....	18,449
Brooks.....	23,832	Gilmer.....	9,237	Oconee.....	11,140
Bryan.....	6,702	Glascock.....	4,669	Oglethorpe.....	18,680
Bulloch.....	26,464	Glynn.....	15,720	Paulding.....	14,124
Burke.....	27,268	Gordon.....	15,861	Pickens.....	9,041
Butts.....	13,624	Grady.....	18,457	Pierce.....	10,749
Calhoun.....	11,334	Greene.....	18,512	Pike.....	19,495
Camden.....	7,690	Gwinnett.....	28,824	Polk.....	20,203
Campbell.....	10,874	Habersham.....	10,134	Pulaski.....	22,835
Carroll.....	30,855	Hall.....	25,730	Putnam.....	13,879
Catoosa.....	7,184	Hancock.....	19,189	Quitman.....	4,594
Charlton.....	4,722	Haralson.....	13,514	Rabun.....	5,562
Chatham.....	79,690	Harris.....	17,886	Randolph.....	18,841
Chattahoochee.....	5,586	Hart.....	16,216	Richmond.....	58,886
Chattooga.....	13,608	Heard.....	11,189	Rockdale.....	8,916
Cherokee.....	16,661	Henry.....	19,927	Schley.....	5,213
Clarke.....	23,273	Houston.....	23,609	Screen.....	20,202
Clay.....	8,960	Irwin.....	10,461	Spalding.....	19,741
Clayton.....	10,453	Jackson.....	30,169	Stephens.....	9,728
Clinch.....	8,424	Jasper.....	16,552	Stewart.....	13,437
Cobb.....	28,397	Jeff Davis.....	6,050	Sumter.....	29,092
Coffee.....	21,953	Jefferson.....	21,379	Talbot.....	11,696
Colquitt.....	19,789	Jenkins.....	11,520	Taliaferro.....	8,766
Columbia.....	12,328	Johnson.....	12,897	Tattnall.....	18,569
Coweta.....	28,800	Jones.....	13,103	Taylor.....	10,839
Crawford.....	8,310	Laurens.....	35,501	Telfair.....	13,288
Crisp.....	16,423	Lee.....	11,679	Terrell.....	22,003
Dade.....	4,139	Liberty.....	12,924	Thomas.....	29,071
Dawson.....	4,686	Lincoln.....	8,714	Tift.....	11,487
Decatur.....	29,045	Lowndes.....	24,436	Toombs.....	11,206
Dekalb.....	27,881	Lumpkin.....	5,444	Towns.....	8,932
Dodge.....	20,127	McDuffie.....	10,325	Troup.....	26,228
Dooly.....	20,554	McIntosh.....	6,442	Turner.....	10,075
Dougherty.....	16,035	Macon.....	15,016	Twiggs.....	10,736
Douglas.....	8,953	Madison.....	16,851	Union.....	6,918
Early.....	18,122	Marion.....	9,147	Upson.....	12,757
Echols.....	3,309	Meriwether.....	25,180	Walker.....	18,692
Effingham.....	9,971	Miller.....	7,986	Walton.....	25,393

## INVENTOR'S MANUAL

Ware.	22,957	Webster.	6,151	Wilkes.	23,441
Warren.	11,860	White.	5,110	Wilkinson.	10,078
Washington.	28,174	Whitfield.	15,934	Worth.	19,147
Wayne.	13,069	Wilcox.	13,486		

## IDAHO

Ada.	29,088	Cassia.	7,197	Lincoln.	12,676
Bannock.	19,242	Custer.	3,001	Nez Perce.	24,860
Bear Lake.	7,729	Elmore.	4,785	Oneida.	15,170
Bingham.	23,306	Fremont.	24,606	Owyhee.	4,044
Blaine.	8,387	Idaho.	12,384	Shoshone.	13,963
Boise.	5,250	Kootenai.	22,747	Twin Falls.	13,543
Bonner.	13,588	Latah.	18,818	Washington.	11,101
Canyon.	25,323	Lemhi.	4,786		

## ILLINOIS

Adams.	64,588	Hardin.	7,015	Morgan.	34,420
Alexander.	22,741	Henderson.	9,724	Moultrie.	14,630
Bond.	17,075	Henry.	41,736	Ogle.	27,864
Boone.	15,481	Iroquois.	35,543	Peoria.	100,255
Brown.	10,397	Jackson.	35,143	Perry.	22,088
Bureau.	43,975	Jasper.	18,157	Platt.	16,376
Calhoun.	8,610	Jefferson.	29,111	Pike.	28,622
Carroll.	18,035	Jersey.	13,954	Pope.	11,215
Cass.	17,372	Jo Daviess.	22,657	Pulaski.	15,650
Champaign.	51,829	Johnson.	14,331	Putnam.	7,561
Christian.	34,594	Kane.	91,862	Randolph.	29,120
Clark.	23,517	Kankakee.	40,752	Richland.	15,970
Clay.	18,661	Kendall.	10,777	Rock Island.	70,404
Clinton.	22,832	Knox.	46,159	St. Clair.	119,870
Coles.	34,517	Lake.	55,058	Saline.	30,204
Cook.	2,405,233	Lasalle.	90,132	Sangamon.	91,024
Crawford.	26,281	Lawrence.	22,661	Schuyler.	14,852
Cumberland.	14,281	Lee.	27,750	Scott.	10,067
Dekalb.	33,457	Livingston.	40,465	Shelby.	31,693
Dewitt.	18,906	Logan.	30,216	Stark.	10,098
Douglas.	19,591	McDonough.	26,887	Stephenson.	36,821
Dupage.	33,432	McHenry.	32,509	Tazewell.	34,027
Edgar.	27,336	McLean.	68,008	Union.	21,856
Edwards.	10,049	Macon.	54,186	Vermillion.	77,996
Effingham.	20,055	Macoupin.	50,685	Wabash.	14,913
Fayette.	28,075	Madison.	89,847	Warren.	23,313
Ford.	17,096	Marion.	35,094	Washington.	18,759
Franklin.	25,943	Marshall.	15,679	Wayne.	25,697
Fulton.	49,549	Mason.	17,377	White.	23,052
Gallatin.	14,628	Massac.	14,200	Whiteside.	34,507
Greene.	22,363	Menard.	12,796	Will.	84,371
Grundy.	24,162	Mercer.	19,723	Williamson.	45,098
Hamilton.	18,227	Monroe.	13,508	Winnebago.	63,153
Hancock.	30,638	Montgomery.	35,311	Woodford.	20,506

## INDIANA

Adams.	21,840	Clay.	32,535	Fayette.	14,415
Allen.	93,386	Clinton.	26,674	Floyd.	30,293
Bartholomew.	24,813	Crawford.	12,057	Fountain.	20,439
Benton.	12,688	Daviess.	27,747	Franklin.	15,335
Blackford.	15,820	Dearborn.	21,396	Fulton.	16,879
Boone.	24,673	Decatur.	18,793	Gibson.	30,137
Brown.	7,975	Dekalb.	25,054	Grant.	51,426
Carroll.	17,970	Delaware.	51,414	Greene.	36,873
Cass.	36,368	Dubois.	19,843	Hamilton.	27,026
Clark.	30,260	Elkhart.	49,008	Hancock.	19,030

# POPULATION BY COUNTIES

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Harrison.....	20,232	Miami.....	29,350	Shelby.....	26,802
Hendricks.....	20,840	Monroe.....	23,426	Spencer.....	20,676
Henry.....	29,758	Montgomery.....	29,296	Starke.....	10,567
Howard.....	33,177	Morgan.....	21,182	Steuben.....	14,274
Huntington.....	28,982	Newton.....	10,504	Sullivan.....	32,439
Jackson.....	24,727	Noble.....	24,009	Switzerland.....	9,914
Jasper.....	13,044	Ohio.....	4,329	Tippecanoe.....	40,063
Jay.....	24,961	Orange.....	17,192	Tipton.....	17,459
Jefferson.....	20,483	Owen.....	14,053	Union.....	6,260
Jennings.....	14,203	Parke.....	22,214	Vanderburg.....	77,438
Johnson.....	20,394	Perry.....	18,078	Vermillion.....	18,865
Knox.....	39,183	Pike.....	19,684	Vigo.....	87,930
Kosciusko.....	27,936	Porter.....	20,540	Wabash.....	26,926
Lagrange.....	15,148	Posey.....	21,670	Warren.....	10,899
Lake.....	82,864	Pulaski.....	13,312	Warrick.....	21,911
Laporte.....	45,797	Putnam.....	20,520	Washington.....	17,445
Lawrence.....	30,625	Randolph.....	29,013	Wayne.....	43,757
Madison.....	65,224	Ripley.....	19,452	Wells.....	22,418
Marion.....	263,661	Rush.....	19,349	White.....	17,6 <sup>2</sup>
Marshall.....	24,175	St. Joseph.....	84,312	Whitley.....	16,892
Martin.....	12,950	Scott.....	8,323		

## IOWA

Adair.....	14,420	Floyd.....	17,119	Monona.....	16,633
Adams.....	10,998	Franklin.....	14,780	Monroe.....	25,429
Allamakee.....	17,328	Fremont.....	15,623	Montgomery.....	16,604
Appanoose.....	28,701	Greene.....	16,023	Muscatine.....	29,505
Audubon.....	12,671	Grundy.....	13,574	O'Brien.....	17,262
Benton.....	23,156	Guthrie.....	17,374	Osceola.....	8,956
Blackhawk.....	44,865	Hamilton.....	19,242	Page.....	24,002
Boone.....	27,626	Hancock.....	12,731	Palo Alto.....	13,845
Bremer.....	15,848	Hardin.....	20,921	Plymouth.....	23,129
Buchanan.....	19,748	Harrison.....	23,162	Pocahontas.....	14,808
Buena Vista.....	15,981	Henry.....	18,640	Polk.....	110,438
Butler.....	17,119	Howard.....	12,920	Pottawattamie.....	55,832
Calhoun.....	17,090	Humboldt.....	12,182	Poweshiek.....	19,589
Carroll.....	20,117	Ida.....	11,296	Ringgold.....	12,904
Cass.....	19,047	Iowa.....	18,409	Sac.....	16,555
Cedar.....	17,765	Jackson.....	21,258	Scott.....	60,000
Cerro Gordo.....	25,011	Jasper.....	27,034	Shelby.....	16,552
Cherokee.....	16,741	Jefferson.....	15,951	Sioux.....	25,248
Chickasaw.....	15,375	Johnson.....	25,914	Story.....	24,083
Clarke.....	10,736	Jones.....	19,050	Tama.....	22,156
Clay.....	12,766	Keokuk.....	21,160	Taylor.....	16,312
Clayton.....	25,576	Kossuth.....	21,971	Union.....	16,616
Clinton.....	45,394	Lee.....	36,702	Van Buren.....	15,020
Crawford.....	20,041	Linn.....	60,720	Wapello.....	37,743
Dallas.....	23,628	Louisa.....	12,855	Warren.....	18,194
Davis.....	13,315	Lucas.....	13,462	Washington.....	19,925
Decatur.....	16,347	Lyon.....	14,624	Wayne.....	16,184
Delaware.....	17,688	Madison.....	15,621	Webster.....	34,629
Des Moines.....	36,145	Mahaska.....	29,860	Winnebago.....	11,914
Dickinson.....	8,137	Marion.....	22,995	Winneshiek.....	21,729
Dubuque.....	57,450	Marshall.....	30,279	Woodbury.....	67,616
Emmet.....	9,816	Mills.....	15,811	Worth.....	9,950
Fayette.....	27,919	Mitchell.....	13,435	Wright.....	17,951

## KANSAS

Allen.....	27,640	Barton.....	17,876	Chase.....	7,527
Anderson.....	13,829	Bourbon.....	24,007	Chautauqua.....	11,429
Atchison.....	28,107	Brown.....	21,314	Cherokee.....	38,162
Barber.....	9,916	Butler.....	23,059	Cheyenne.....	4,248

## INVENTOR'S MANUAL

Clark.	4,093	Jefferson.	15,826	Pottawatomie.	17,522
Clay.	15,251	Jewell.	18,148	Pratt.	11,156
Cloud.	18,388	Johnson.	18,288	Rawlins.	6,380
Coffey.	15,205	Kearny.	3,206	Reno.	37,853
Comanche.	3,281	Kingman.	13,336	Republic.	17,447
Cowley.	31,790	Kiowa.	6,174	Rice.	15,106
Crawford.	51,178	Labette.	31,423	Riley.	15,783
Decatur.	8,976	Lane.	2,603	Rooks.	11,282
Dickinson.	24,361	Leavenworth.	41,207	Rush.	7,826
Doniphan.	14,422	Lincoln.	10,142	Russell.	10,800
Douglas.	24,724	Linn.	14,735	Saline.	20,338
Edwards.	7,033	Logan.	4,240	Scott.	3,047
Elk.	10,128	Lyon.	24,927	Sedgwick.	73,095
Ellis.	12,170	McPherson.	21,521	Seward.	4,091
Ellsworth.	10,444	Marion.	22,415	Shawnee.	61,874
Finney.	6,908	Marshall.	23,880	Sheridan.	5,651
Ford.	11,392	Meade.	5,055	Sherman.	4,549
Franklin.	20,884	Miami.	20,030	Smith.	15,365
Geary.	12,681	Mitchell.	14,089	Stafford.	12,510
Gove.	6,044	Montgomery.	49,474	Stanton.	1,034
Graham.	8,700	Morris.	12,397	Stevens.	2,453
Grant.	1,087	Morton.	1,333	Sumner.	30,654
Gray.	3,121	Nemaha.	19,072	Thomas.	5,455
Greeley.	1,325	Neosho.	23,754	Trego.	5,398
Greenwood.	16,060	Ness.	5,883	Wabaunsee.	12,721
Hamilton.	3,360	Norton.	11,614	Wallace.	2,759
Harper.	14,748	Osage.	19,905	Washington.	20,229
Harvey.	19,200	Osborne.	12,827	Wichita.	2,006
Haskell.	993	Ottawa.	11,811	Wilson.	19,810
Hodgemna.	2,930	Pawnee.	8,859	Woodson.	9,450
Jackson.	16,861	Phillips.	14,150	Wyandotte.	100,068

## KENTUCKY

Adair.	16,503	Elliott.	9,814	Laurel.	19,872
Allen.	14,882	Estill.	12,273	Lawrence.	20,067
Anderson.	10,146	Fayette.	47,715	Lee.	9,531
Ballard.	12,690	Fleming.	16,066	Leslie.	8,976
Barren.	25,293	Floyd.	18,623	Letcher.	10,623
Bath.	13,988	Franklin.	21,135	Lewis.	16,887
Bell.	28,447	Fulton.	14,114	Lincoln.	17,897
Boone.	9,420	Gallatin.	4,697	Livingston.	10,627
Bourbon.	17,462	Garrard.	11,894	Logan.	24,977
Boyd.	23,444	Grant.	10,581	Lyon.	9,423
Boyle.	14,668	Graves.	33,539	McCracken.	35,064
Bracken.	10,308	Grayson.	19,958	McLean.	13,241
Breathitt.	17,540	Green.	11,871	Madison.	26,951
Breckinridge.	21,034	Greenup.	18,475	Magoffin.	13,654
Bullitt.	9,487	Hancock.	8,512	Marion.	16,330
Butler.	15,805	Hardin.	22,696	Marshall.	15,771
Caldwell.	14,063	Harlan.	10,566	Martin.	7,291
Calloway.	19,867	Harrison.	16,873	Mason.	18,611
Campbell.	59,369	Hart.	18,173	Meade.	9,783
Carlisle.	9,048	Henderson.	29,352	Menifee.	6,153
Carroll.	8,110	Henry.	13,716	Mercer.	14,063
Carter.	21,966	Hickman.	11,750	Metcalfe.	10,453
Casey.	15,479	Hopkins.	34,291	Monroe.	13,663
Christian.	38,845	Jackson.	10,734	Montgomery.	12,868
Clark.	17,987	Jefferson.	262,920	Morgan.	16,259
Clay.	17,789	Jessamine.	12,613	Muhlenberg.	28,589
Clinton.	8,153	Johnson.	17,482	Nelson.	16,830
Crittenden.	13,296	Kenton.	70,355	Nicholas.	10,601
Cumberland.	9,846	Knott.	10,791	Ohio.	27,642
Daviess.	41,020	Knox.	22,116	Oldham.	7,248
Edmonson.	10,469	Larue.	10,701	Owen.	14,248

# POPULATION BY COUNTIES

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Owsley.....	7,979	Russell.....	10,861	Union.....	19,886
Pendleton.....	11,985	Scott.....	16,956	Warren.....	30,579
Perry.....	11,255	Shelby.....	18,041	Washington.....	13,940
Pike.....	31,679	Simpson.....	11,460	Wayne.....	17,518
Powell.....	6,268	Spencer.....	7,567	Webster.....	20,974
Pulaski.....	35,986	Taylor.....	11,961	Whitley.....	31,982
Robertson.....	4,121	Todd.....	16,488	Wolfe.....	9,864
Rockcastle.....	14,473	Trigg.....	14,539	Woodford.....	12,571
Rowan.....	9,438	Trimble.....	6,512		

## LOUISIANA

Acadia.....	31,847	Ibererville.....	30,954	St. Charles.....	11,207
Ascension.....	23,887	Jackson.....	13,818	St. Helena.....	9,172
Assumption.....	24,128	Jefferson.....	18,247	St. James.....	23,009
Avoyelles.....	34,102	La Salle.....	9,402	St. John the Baptist.	14,338
Bienvenue.....	21,776	Lafayette.....	28,733	St. Landry.....	66,661
Bossier.....	21,738	Lafourche.....	33,111	St. Martin.....	23,070
Caddo.....	58,200	Lincoln.....	18,485	St. Mary.....	39,368
Calcasie.....	62,767	Livingston.....	10,627	St. Tammany.....	18,917
Caldwell.....	8,593	Madison.....	10,676	Tangipahoa.....	29,160
Cameron.....	4,288	Morehouse.....	18,786	Tensas.....	17,060
Catahoula.....	10,415	Natchitoches.....	36,455	Terrebonne.....	28,321
Claiborne.....	25,050	Orleans.....	339,075	Union.....	20,490
Concordia.....	14,278	Ouachita.....	25,830	Vermillion.....	26,384
De Soto.....	27,689	Plaquemines.....	12,524	Vernon.....	17,356
East Baton Rouge.....	34,580	Pointe Coupee.....	25,289	Washington.....	18,880
East Carroll.....	11,637	Rapides.....	44,545	Webster.....	19,189
East Feliciana.....	20,055	Red River.....	11,402	West Baton Rouge.....	12,636
Franklin.....	11,989	Richland.....	15,769	West Carroll.....	6,249
Grant.....	15,958	Sabine.....	19,874	West Feliciana.....	13,449
Iberia.....	31,262	St. Bernard.....	5,277	Winn.....	18,357

## MAINE

Androscoggin.....	59,822	Knox.....	28,981	Somerset.....	36,301
Aroostook.....	74,664	Lincoln.....	18,216	Waldo.....	23,383
Cumberland.....	112,014	Oxford.....	36,256	Washington.....	42,905
Franklin.....	19,119	Penobscot.....	85,285	York.....	68,526
Hancock.....	35,575	Piscataquis.....	19,887		
Kennebec.....	62,863	Sagadahoc.....	18,574		

## MARYLAND

Allegany.....	62,411	Charles.....	16,386	Prince Georges.....	36,147
Anne Arundel.....	39,553	Dorchester.....	28,669	Queen Annes.....	16,839
Baltimore.....	122,399	Frederick.....	52,673	St. Marys.....	17,030
Baltimore City.....	558,485	Garrett.....	20,105	Somerset.....	26,455
Calvert.....	10,325	Hartford.....	27,965	Talbot.....	19,620
Caroline.....	19,216	Howard.....	16,106	Washington.....	48,671
Carroll.....	33,934	Kent.....	16,957	Wicomico.....	26,815
Cecil.....	23,759	Montgomery.....	32,089	Worcester.....	21,841

## MASSACHUSETTS

Barnstable.....	27,542	Franklin.....	43,600	Norfolk.....	187,506
Berkshire.....	105,259	Hampden.....	231,369	Plymouth.....	144,337
Bristol.....	318,573	Hampshire.....	63,327	Suffolk.....	731,388
Dukes.....	4,504	Middlesex.....	669,915	Worcester.....	399,657
Essex.....	436,477	Nantucket.....	2,962		

## INVENTOR'S MANUAL

## MICHIGAN

Alcona.....	5,703	Gratiot.....	28,820	Missaukee.....	10,606
Alger.....	7,675	Hillsdale.....	29,673	Monroe.....	32,917
Allegan.....	39,819	Houghton.....	88,098	Montcalm.....	32,069
Alpena.....	19,965	Huron.....	34,758	Montmorency.....	3,755
Antrim.....	15,692	Ingham.....	53,310	Muskegon.....	40,577
Arenac.....	9,640	Ionia.....	33,550	Newaygo.....	19,220
Baraga.....	6,127	Iosco.....	9,753	Oakland.....	49,576
Barry.....	22,633	Iron.....	15,164	Oceana.....	18,379
Bay.....	68,238	Isabella.....	23,029	Ogemaw.....	8,907
Benzie.....	10,638	Jackson.....	53,426	Ontonagon.....	8,650
Berrien.....	53,622	Kalamazoo.....	60,427	Osecola.....	17,889
Branch.....	25,605	Kalkaska.....	8,097	Oscoda.....	2,027
Calhoun.....	56,638	Kent.....	159,145	Otsego.....	6,552
Cass.....	20,624	Keweenaw.....	7,156	Ottawa.....	45,301
Charlevoix.....	19,157	Lake.....	4,939	Presque Isle.....	11,249
Cheboygan.....	17,872	Lapeer.....	26,033	Roscommon.....	2,274
Chippewa.....	24,472	Leelanau.....	10,608	Saginaw.....	89,290
Clare.....	9,240	Lenawee.....	47,907	St. Clair.....	52,341
Clinton.....	23,129	Livingston.....	17,736	St. Joseph.....	25,499
Crawford.....	3,934	Luce.....	4,004	Sanilac.....	33,930
Delta.....	30,108	Mackinac.....	9,249	Schoolcraft.....	8,681
Dickinson.....	20,524	Macomb.....	32,606	Shiawassee.....	33,246
Eaton.....	30,499	Manistee.....	26,688	Tuscola.....	34,913
Emmet.....	18,561	Marquette.....	46,739	Van Buren.....	33,185
Genesee.....	64,555	Mason.....	21,832	Washtenaw.....	44,714
Gladwin.....	8,413	Mecosta.....	19,466	Wayne.....	531,590
Gogebic.....	23,333	Menominee.....	25,648	Wexford.....	20,769
Grand Traverse.....	23,784	Midland.....	14,005		

## MINNESOTA

Aitkin.....	10,371	Isanti.....	12,615	Pope.....	12,746
Anoka.....	12,493	Itasca.....	17,208	Ramsey.....	223,675
Becker.....	18,840	Jackson.....	14,491	Red Lake.....	15,940
Beltrami.....	19,337	Kanabec.....	6,461	Redwood.....	18,425
Benton.....	11,615	Kandiyohi.....	18,969	Renville.....	23,123
Bigstone.....	9,367	Kittson.....	9,669	Rice.....	25,911
Blue Earth.....	29,337	Koochiching.....	6,431	Rock.....	10,222
Brown.....	20,134	Lac qui Parle.....	15,435	Roseau.....	11,338
Carlton.....	17,559	Lake.....	8,011	St. Louis.....	163,274
Carver.....	17,455	Le Sueur.....	18,609	Scott.....	14,888
Cass.....	11,620	Lincoln.....	9,874	Sheburne.....	8,136
Chippewa.....	13,458	Lyon.....	15,722	Sibley.....	15,540
Chisago.....	13,537	McLeod.....	18,691	Stearns.....	47,733
Clay.....	19,640	Mahnomen.....	3,249	Steele.....	16,146
Clearwater.....	6,870	Marshall.....	16,338	Stevens.....	8,293
Cook.....	1,136	Martin.....	17,518	Swift.....	12,949
Cottonwood.....	12,651	Meeker.....	17,022	Todd.....	23,407
Crow Wing.....	16,861	Mille Lacs.....	10,705	Traverse.....	8,049
Dakota.....	25,171	Morrison.....	24,053	Wabasha.....	18,554
Dodge.....	12,094	Mower.....	22,640	Wadena.....	8,652
Douglas.....	17,669	Murray.....	11,755	Waseca.....	13,466
Faribault.....	19,949	Nicollet.....	14,125	Washington.....	26,013
Fillmore.....	25,680	Nobles.....	15,210	Watowwan.....	11,382
Freeborn.....	22,282	Norman.....	13,446	Wilkin.....	9,063
Goodhue.....	31,637	Olmsted.....	22,497	Winona.....	33,398
Grant.....	9,114	Otter Tail.....	46,036	Wright.....	28,082
Hennepin.....	333,480	Pine.....	15,878	Yellow Medicine.....	15,406
Houston.....	14,297	Pipestone.....	9,553		
Hubbard.....	9,831	Polk.....	36,001		

# POPULATION BY COUNTIES

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## MISSISSIPPI

Adams.....	25,265	Itawamba.....	14,526	Perry.....	7,685
Alcorn.....	18,159	Jackson.....	15,451	Pike.....	37,272
Amite.....	22,954	Jasper.....	18,498	Pontotoc.....	19,688
Attala.....	28,851	Jefferson.....	18,221	Prentiss.....	16,931
Benton.....	10,245	Jefferson Davis.....	12,860	Quitman.....	11,593
Bolivar.....	48,905	Jones.....	29,885	Rankin.....	23,944
Calhoun.....	17,726	Kemper.....	20,348	Scott.....	16,723
Carroll.....	23,139	Lafayette.....	21,883	Sharkey.....	15,694
Chickasaw.....	22,846	Lamar.....	11,741	Simpson.....	17,201
Choctaw.....	14,357	Lauderdale.....	46,919	Smith.....	16,603
Claiborne.....	17,403	Lawrence.....	13,080	Sunflower.....	28,787
Clarke.....	21,630	Leake.....	18,298	Tallahatchie.....	29,078
Clay.....	20,203	Lee.....	28,894	Tate.....	19,714
Coahoma.....	34,217	Leflore.....	36,290	Tippah.....	14,631
Copiah.....	35,914	Lincoln.....	28,597	Tishomingo.....	13,067
Covington.....	16,909	Lowndes.....	30,703	Tunica.....	18,646
De Soto.....	23,130	Madison.....	33,505	Union.....	18,997
Forrest.....	20,722	Marion.....	15,599	Warren.....	37,488
Franklin.....	15,193	Marshall.....	26,796	Washington.....	48,933
George.....	6,599	Monroe.....	35,178	Wayne.....	14,709
Greene.....	6,050	Montgomery.....	17,706	Webster.....	14,853
Grenada.....	15,727	Neshoba.....	17,980	Wilkinson.....	18,075
Hancock.....	11,207	Newton.....	23,085	Winston.....	17,139
Harrison.....	34,658	Noxubee.....	28,503	Yalobusha.....	21,519
Hinds.....	63,726	Oktibbeha.....	19,676	Yazoo.....	46,672
Holmes.....	39,088	Panola.....	31,274		
Issaquena.....	10,560	Pearl River.....	10,593		

## MISSOURI

Adair.....	22,700	Douglas.....	16,664	Mississippi.....	14,557
Andrew.....	15,282	Dunklin.....	30,328	Moniteau.....	14,375
Atchison.....	13,604	Franklin.....	29,830	Monroe.....	18,304
Audrain.....	21,687	Gasconade.....	12,847	Montgomery.....	15,604
Barry.....	23,869	Gentry.....	16,820	Morgan.....	12,863
Barton.....	16,747	Greene.....	63,831	New Madrid.....	19,488
Bates.....	25,869	Grundy.....	16,744	Newton.....	27,136
Benton.....	14,881	Harrison.....	20,466	Nodaway.....	28,833
Bollinger.....	14,576	Henry.....	27,242	Oregon.....	14,681
Boone.....	30,533	Hickory.....	8,741	Osage.....	14,283
Buchanan.....	93,020	Holt.....	14,539	Ozark.....	11,926
Butler.....	20,624	Howard.....	15,653	Pemiscot.....	19,559
Caldwell.....	14,605	Howell.....	21,065	Perry.....	14,898
Callaway.....	24,400	Iron.....	8,563	Pettis.....	33,913
Camden.....	11,582	Jackson.....	263,522	Phelps.....	15,796
Cape Girardeau.....	27,621	Jasper.....	89,673	Pike.....	22,556
Carroll.....	23,098	Jefferson.....	27,878	Platte.....	14,429
Carter.....	5,504	Johnson.....	26,297	Polk.....	21,561
Cass.....	22,973	Knox.....	12,403	Pulaski.....	11,436
Cedar.....	16,080	Laclede.....	17,363	Putnam.....	14,308
Chariton.....	23,503	Lafayette.....	30,154	Ralls.....	12,913
Christian.....	15,832	Lawrence.....	26,583	Randolph.....	26,182
Clark.....	12,811	Lewis.....	15,514	Ray.....	21,451
Clay.....	20,302	Lincoln.....	17,033	Reynolds.....	9,592
Clinton.....	15,297	Linn.....	25,253	Ripley.....	13,099
Cole.....	21,957	Livingston.....	19,453	St. Charles.....	24,695
Cooper.....	20,311	McDonald.....	13,539	St. Clair.....	16,412
Crawford.....	13,576	Macon.....	30,358	St. Francois.....	35,738
Dade.....	15,613	Madison.....	11,273	St. Louis.....	82,417
Dallas.....	13,181	Maries.....	10,088	St. Louis City.....	587,029
Daviess.....	17,605	Marion.....	30,572	Ste. Genevieve.....	10,607
Dekalb.....	12,531	Mercer.....	13,355	Saline.....	29,448
Dent.....	13,245	Miller.....	16,717	Schuylerville.....	9,062

## INVENTOR'S MANUAL

Scotland.....	11,869	Sullivan.....	18,598	Wayne.....	15,181
Scott.....	22,372	Taney.....	9,134	Webster.....	17,377
Shannon.....	11,443	Texas.....	21,458	Worth.....	8,007
Shelby.....	14,864	Vernon.....	28,827	Wright.....	18,315
Stoddard.....	27,807	Warren.....	9,123		
Stone.....	11,559	Washington.....	13,378		

## MONTANA

Beaverhead.....	6,446	Gallatin.....	14,079	Ravalli.....	11,666
Broadwater.....	3,491	Granite.....	2,942	Rosebud.....	7,985
Carbon.....	13,962	Jefferson.....	5,601	Sanders.....	3,713
Cascade.....	28,833	Lewis and Clark.....	21,853	Silver Bow.....	56,848
Chouteau.....	17,191	Lincoln.....	3,638	Sweet Grass.....	4,029
Custer.....	14,123	Madison.....	7,229	Teton.....	9,546
Dawson.....	12,725	Meagher.....	4,190	Valley.....	13,630
Deer Lodge.....	12,988	Missoula.....	23,596	Yellowstone.....	22,944
Fergus.....	17,385	Park.....	10,731		
Flathead.....	18,785	Powell.....	5,904		

## NEBRASKA

Adams.....	20,900	Furnas.....	12,083	Nemaha.....	13,095
Antelope.....	14,003	Gage.....	30,325	Nuckolls.....	13,019
Banner.....	1,444	Garden.....	3,538	Otoe.....	19,323
Blaine.....	1,672	Garfield.....	3,417	Pawnee.....	10,582
Boone.....	13,145	Gosper.....	4,933	Perkins.....	2,570
Boxbutte.....	6,131	Grant.....	1,097	Phelps.....	10,451
Boyd.....	8,826	Greeley.....	8,047	Pierce.....	10,122
Brown.....	6,083	Hall.....	20,361	Platte.....	19,006
Buffalo.....	21,907	Hamilton.....	13,459	Polk.....	10,521
Burt.....	12,726	Harlan.....	9,578	Redwillow.....	11,056
Butler.....	15,403	Hayes.....	3,011	Richardson.....	17,448
Cass.....	19,786	Hitchcock.....	5,415	Rock.....	3,627
Cedar.....	15,191	Holt.....	15,545	Saline.....	17,866
Chase.....	3,613	Hooker.....	981	Sarpy.....	9,274
Cherry.....	10,414	Howard.....	10,783	Saunders.....	21,179
Cheyenne.....	4,551	Jefferson.....	16,852	Scotts Bluff.....	8,355
Clay.....	15,729	Johnson.....	10,187	Seward.....	15,895
Colfax.....	11,610	Kearney.....	9,106	Sheridan.....	7,328
Cuming.....	13,782	Keith.....	3,692	Sherman.....	8,278
Custer.....	25,668	Keyapaha.....	3,452	Sioux.....	5,599
Dakota.....	6,564	Kimball.....	1,942	Stanton.....	7,542
Dawes.....	8,254	Knox.....	18,358	Thayer.....	14,775
Dawson.....	15,961	Lancaster.....	73,793	Thomas.....	1,191
Deuel.....	1,786	Lincoln.....	15,684	Thurston.....	8,704
Dixon.....	11,477	Logan.....	1,521	Valley.....	9,480
Dodge.....	22,145	Loup.....	2,188	Washington.....	12,738
Douglas.....	168,546	McPherson.....	2,470	Wayne.....	10,397
Dundy.....	4,098	Madison.....	19,101	Webster.....	12,008
Fillmore.....	14,674	Merrick.....	10,379	Wheeler.....	2,292
Franklin.....	10,303	Morrill.....	4,584	York.....	18,721
Frontier.....	8,572	Nance.....	8,926		

## NEVADA

Churchill.....	2,811	Eureka.....	1,830	Nye.....	7,513
Clark.....	3,321	Humboldt.....	6,825	Ormsby.....	3,089
Douglas.....	1,895	Lander.....	1,786	Storey.....	3,045
Elko.....	8,133	Lincoln.....	3,489	Washeoe.....	17,434
Esmeralda.....	9,695	Lyon.....	3,568	White Pine.....	7,441

# POPULATION BY COUNTIES

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## NEW HAMPSHIRE

Belknap.....	21,300	Grafton.....	41,652	Strafford.....	38,951
Carroll.....	16,316	Hillsboro.....	126,072	Sullivan.....	19,337
Cheshire.....	30,659	Merrimack.....	53,335		
Coos.....	30,753	Rockingham.....	52,188		

## NEW JERSEY

Atlantic.....	71,894	Gloucester.....	37,368	Ocean.....	21,318
Bergen.....	138,002	Hudson.....	537,231	Passaic.....	215,902
Burlington.....	66,565	Hunterdon.....	33,569	Salein.....	26,999
Camden.....	142,029	Mercer.....	125,657	Somerset.....	38,820
Cape May.....	19,745	Middlesex.....	114,426	Sussex.....	26,781
Cumberland.....	55,153	Monmouth.....	94,734	Union.....	140,197
Essex.....	512,886	Morris.....	74,704	Warren.....	43,187

## NEW MEXICO

Bernalillo.....	23,606	Luna.....	3,913	Sandoval.....	8,579
Chaves.....	16,850	McKinley.....	12,963	Santa Fe.....	14,770
Colfax.....	16,460	Mora.....	12,611	Sierra.....	3,536
Curry.....	11,443	Otero.....	7,069	Socorro.....	14,760
Dona Ana.....	12,893	Quay.....	14,912	Taos.....	12,008
Eddy.....	12,400	Rio Arriba.....	16,719	Torrance.....	10,119
Grant.....	14,813	Roosevelt.....	12,064	Union.....	11,404
Guadalupe.....	10,927	San Juan.....	8,504	Valencia.....	13,320
Lincoln.....	7,822	San Miguel.....	22,930		

## NEW YORK

Albany.....	173,666	Jefferson.....	80,382	Rockland.....	46,873
Allegany.....	41,412	Kings.....	1,634,351	St. Lawrence.....	89,005
Broom.....	78,809	Lewis.....	24,849	Saratoga.....	61,917
Cattaraugus.....	65,919	Livingston.....	38,037	Schenectady.....	88,235
Cayuga.....	67,106	Madison.....	39,289	Schoharie.....	23,355
Chautauqua.....	105,126	Monroe.....	283,212	Schuyler.....	14,004
Chemung.....	54,662	Montgomery.....	57,567	Seneca.....	26,972
Chenango.....	35,575	Nassau.....	83,930	Steuben.....	83,362
Clinton.....	48,230	New York.....	2,762,522	Suffolk.....	96,138
Columbia.....	43,658	Niagara.....	92,036	Sullivan.....	33,808
Cortland.....	29,249	Oneida.....	154,157	Tioga.....	25,624
Delaware.....	45,575	Onondaga.....	200,298	Tompkins.....	33,647
Dutchess.....	87,661	Ontario.....	52,286	Ulster.....	91,769
Erie.....	528,985	Orange.....	116,001	Warren.....	32,223
Essex.....	33,458	Orleans.....	32,000	Washington.....	47,778
Franklin.....	45,717	Oswego.....	71,664	Wayne.....	50,179
Fulton.....	44,534	Otsego.....	47,216	Westchester.....	283,055
Genesee.....	37,615	Putnam.....	14,665	Wyoming.....	31,880
Greene.....	30,214	Queens.....	284,041	Yates.....	18,642
Hamilton.....	4,373	Rensselaer.....	122,276		
Herkimer.....	56,356	Richmond.....	85,969		

## NORTH CAROLINA

Alamance.....	28,712	Burke.....	21,408	Clay.....	3,909
Alexander.....	11,592	Cavarrus.....	26,240	Cleveland.....	29,494
Alleghany.....	7,745	Caldwell.....	20,579	Columbus.....	28,020
Anson.....	25,465	Camden.....	5,640	Craven.....	25,594
Ashe.....	19,074	Carteret.....	13,776	Cumberland.....	35,284
Beaufort.....	30,877	Caswell.....	14,858	Currituck.....	7,693
Bertie.....	23,039	Catawba.....	27,918	Dare.....	4,841
Bladen.....	18,006	Chatham.....	22,635	Davidson.....	29,404
Brunswick.....	14,432	Cherokee.....	14,136	Davie.....	13,394
Buncombe.....	49,798	Chowan.....	11,303	Duplin.....	25,442

## INVENTOR'S MANUAL

Durham.....	35,276	McDowell.....	13,538	Rockingham.....	36,442
Edgecombe.....	32,010	Macon.....	12,191	Rowan.....	37,521
Forsyth.....	47,311	Madison.....	20,132	Rutherford.....	28,385
Franklin.....	24,692	Martin.....	17,797	Sampson.....	29,982
Gaston.....	37,063	Mecklenburg.....	67,031	Scotland.....	15,363
Gates.....	10,455	Mitchell.....	17,245	Stanly.....	19,909
Graham.....	4,749	Montgomery.....	14,967	Stokes.....	20,151
Granville.....	25,102	Moore.....	17,010	Surry.....	29,705
Greene.....	13,083	Nash.....	33,727	Swain.....	10,403
Guildford.....	60,497	New Hanover.....	32,037	Transylvania.....	7,191
Halifax.....	37,646	Northampton.....	22,323	Tyrrell.....	5,219
Harnett.....	22,174	Onslow.....	14,125	Union.....	33,277
Haywood.....	21,020	Orange.....	15,064	Vance.....	19,425
Henderson.....	16,262	Pamlico.....	9,966	Wake.....	63,229
Hertford.....	15,436	Pasquotank.....	16,693	Warren.....	20,266
Hyde.....	8,840	Pender.....	15,471	Washington.....	11,062
Iredell.....	34,315	Perquimans.....	11,054	Watauga.....	13,556
Jackson.....	12,998	Person.....	17,356	Wayne.....	35,698
Johnston.....	41,401	Pitt.....	36,340	Wilkes.....	30,282
Jones.....	8,721	Polk.....	7,640	Wilson.....	28,269
Lee.....	11,376	Randolph.....	29,491	Yadkin.....	15,428
Lenoir.....	22,769	Richmond.....	19,673	Yancey.....	12,072
Lincoln.....	17,132	Robeson.....	51,945		

## NORTH DAKOTA

Adams.....	5,407	Hettinger.....	6,557	Ransom.....	10,345
Barnes.....	18,066	Kidder.....	5,962	Richland.....	19,659
Benson.....	12,681	Lamoure.....	10,724	Rolette.....	9,558
Billings.....	10,186	Logan.....	6,168	Sargent.....	9,202
Bottineau.....	17,295	McHenry.....	17,627	Sheridan.....	8,103
Bowman.....	4,668	McIntosh.....	7,251	Stark.....	12,504
Burleigh.....	13,087	McKenzie.....	5,720	Steele.....	7,616
Cass.....	33,935	McLean.....	14,578	Stutsman.....	18,189
Cavalier.....	15,659	Mercer.....	4,665	Towner.....	9,963
Dickey.....	9,839	Mountail.....	8,491	Trail.....	12,545
Dunn.....	5,302	Morton.....	25,289	Walsh.....	19,491
Eddy.....	4,800	Nelson.....	10,140	Ward.....	42,185
Emmons.....	9,796	Oliver.....	3,577	Wells.....	11,814
Foster.....	5,313	Pembina.....	14,749	Williams.....	2,249
Grand Forks.....	27,888	Pierce.....	9,740		
Griggs.....	6,274	Ramsey.....	15,199		

## OHIO

Adams.....	24,755	Defiance.....	24,498	Huron.....	34,206
Allen.....	56,580	Delaware.....	27,182	Jackson.....	30,791
Ashland.....	22,975	Eric.....	38,327	Jefferson.....	65,423
Ashtabula.....	59,547	Fairfield.....	39,201	Knox.....	30,181
Athens.....	47,798	Fayette.....	21,744	Lake.....	22,927
Auglaize.....	31,246	Franklin.....	221,567	Lawrence.....	39,488
Belmont.....	76,856	Fulton.....	23,914	Licking.....	55,590
Brown.....	24,832	Gallia.....	25,745	Logan.....	30,084
Butler.....	70,271	Geauga.....	14,670	Lorain.....	76,047
Carroll.....	15,761	Greene.....	29,733	Lucas.....	192,728
Champaign.....	26,351	Guernsey.....	42,716	Madison.....	19,902
Clark.....	66,435	Hamilton.....	460,732	Mahoning.....	116,151
Clermont.....	29,551	Hancock.....	37,860	Marion.....	33,971
Clinton.....	23,680	Hardin.....	30,407	Medina.....	23,598
Columbiana.....	76,619	Harrison.....	19,076	Meigs.....	25,594
Coshocton.....	30,121	Henry.....	25,119	Mercer.....	27,536
Crawford.....	34,036	Highland.....	28,711	Miami.....	45,047
Cuyahoga.....	637,425	Hocking.....	23,650	Monroe.....	24,244
Darke.....	42,933	Holmes.....	17,999	Montgomery.....	163,763

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## POPULATION BY COUNTIES

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Morgan.....	16,097	Putnam.....	29,972	Union.....	21,871
Morrow.....	16,815	Richland.....	47,667	Van Wert.....	29,119
Muskingum.....	57,488	Ross.....	40,069	Vinton.....	13,096
Noble.....	18,601	Sandusky.....	35,171	Warren.....	24,497
Ottawa.....	22,360	Scioto.....	48,463	Washington.....	45,422
Paulding.....	22,730	Seneca.....	42,421	Wayne.....	38,058
Perry.....	35,396	Shelby.....	24,663	Williams.....	25,198
Pickaway.....	26,158	Stark.....	122,987	Wood.....	46,330
Pike.....	15,723	Summit.....	108,253	Wyandot.....	20,760
Portage.....	30,307	Trumbull.....	52,766		
Preble.....	23,834	Tuscarawas.....	57,035		

## OKLAHOMA

Adair.....	10,535	Greer.....	16,449	Oklfuskee.....	19,995
Alfalfa.....	18,138	Harmon.....	11,328	Oklahoma.....	85,232
Atoka.....	13,808	Harper.....	8,189	Okmulgee.....	21,115
Beaver.....	13,631	Haskell.....	18,875	Osage.....	20,101
Beckham.....	19,699	Hughes.....	24,040	Ottawa.....	15,713
Blaine.....	17,960	Jackson.....	23,737	Pawnee.....	17,332
Bryan.....	29,854	Jefferson.....	17,430	Payne.....	23,735
Caddo.....	35,685	Johnston.....	16,734	Pittsburg.....	47,650
Canadian.....	23,501	Kay.....	26,999	Pontotoc.....	24,331
Carter.....	25,358	Kingfisher.....	18,825	Pottawatomie.....	43,595
Cherokee.....	16,778	Kiowa.....	27,526	Pushmataha.....	10,118
Choctaw.....	21,862	Latimer.....	11,321	Roger Mills.....	12,861
Cimarron.....	4,553	Le Flore.....	29,127	Rogers.....	17,736
Cleveland.....	18,843	Lincoln.....	34,779	Seminole.....	19,964
Coal.....	15,817	Logan.....	31,740	Sequoyah.....	25,005
Comanche.....	41,489	Love.....	10,236	Stephens.....	22,252
Craig.....	17,404	McClain.....	15,659	Texas.....	14,249
Creek.....	26,223	McCurtain.....	20,681	Tillman.....	18,650
Custer.....	28,231	McIntosh.....	20,961	Tulsa.....	34,995
Delaware.....	11,469	Major.....	15,248	Wagoner.....	22,086
Dewey.....	14,132	Marshall.....	11,619	Washington.....	17,484
Ellis.....	15,375	Mayes.....	13,596	Washita.....	25,034
Garfield.....	33,050	Murray.....	12,744	Woods.....	17,567
Garvin.....	26,545	Muskogee.....	52,743	Woodward.....	16,592
Grady.....	30,309	Noble.....	14,945		
Grant.....	18,760	Nowata.....	14,223		

## OREGON

Baker.....	18,076	Hood River.....	8,016	Polk.....	13,469
Benton.....	10,663	Jackson.....	25,756	Sherman.....	4,242
Clackamas.....	29,931	Josephine.....	9,567	Tillamook.....	6,266
Clatsop.....	16,106	Klamath.....	8,554	Umatilla.....	20,309
Columbia.....	10,580	Lake.....	4,658	Union.....	16,191
Coos.....	17,959	Lane.....	33,783	Wallowa.....	8,364
Crook.....	9,315	Lincoln.....	5,587	Wasco.....	16,336
Curry.....	2,044	Linn.....	22,662	Washington.....	21,522
Douglas.....	19,674	Malhour.....	8,601	Wheeler.....	2,484
Gilliam.....	3,701	Marion.....	39,780	Yamhill.....	18,285
Grant.....	5,607	Morrow.....	4,357		
Harney.....	4,059	Multnomah.....	226,261		

## PENNSYLVANIA

Adams.....	34,319	Bradford.....	54,526	Chester.....	109,213
Allegheny.....	1,018,463	Bucks.....	76,530	Clarion.....	36,638
Armstrong.....	67,880	Butler.....	72,689	Clearfield.....	93,768
Beaver.....	78,353	Cambria.....	166,131	Clinton.....	31,545
Bedford.....	38,879	Cameron.....	7,644	Columbia.....	48,467
Berks.....	183,222	Carbon.....	52,846	Crawford.....	61,565
Blair.....	108,858	Center.....	43,424	Cumberland.....	54,479

## INVENTOR'S MANUAL

Dauphin.....	136,152	Lebanon.....	59,565	Schuylkill.....	207,894
Delaware.....	117,906	Lehigh.....	118,832	Snyder.....	16,800
Elk.....	35,871	Luzerne.....	343,186	Somerset.....	67,717
Eric.....	115,517	Lycoming.....	80,813	Sullivan.....	11,293
Fayette.....	167,449	McKean.....	47,868	Susquehanna.....	37,746
Forest.....	9,435	Mercer.....	77,699	Tioga.....	42,829
Franklin.....	59,775	Mifflin.....	27,785	Union.....	16,249
Fulton.....	9,703	Monroe.....	22,941	Venango.....	56,359
Greene.....	28,882	Montgomery.....	169,590	Warren.....	39,573
Huntingdon.....	38,304	Montour.....	14,868	Washington.....	143,680
Indiana.....	66,210	Northampton.....	127,667	Wayne.....	29,236
Jefferson.....	63,090	Northumberland.....	111,420	Westmoreland.....	231,304
Juniata.....	15,013	Perry.....	24,136	Wyoming.....	15,509
Lackawanna.....	259,570	Philadelphia.....	1,549,008	York.....	136,405
Lancaster.....	167,029	Pike.....	8,033		
Lawrence.....	70,032	Potter.....	29,729		

## RHODE ISLAND

Bristol.....	17,602	Newport.....	39,335	Washington.....	24,942
Kent.....	30,378	Providence.....	424,417		

## SOUTH CAROLINA

Abbeville.....	34,804	Dillon.....	22,615	Marion.....	20,596
Aiken.....	41,849	Dorchester.....	17,890	Marlboro.....	31,189
Anderson.....	69,568	Edgefield.....	28,281	Newberry.....	34,586
Bamberg.....	18,544	Fairfield.....	29,441	Oconee.....	27,337
Barnwell.....	34,209	Florence.....	35,672	Orangeburg.....	55,893
Beaufort.....	30,355	Georgetown.....	22,271	Pickens.....	25,422
Berkeley.....	23,487	Greenville.....	68,370	Richland.....	55,143
Calhoun.....	16,634	Greenwood.....	34,227	Saluda.....	20,943
Charleston.....	88,594	Hampton.....	25,126	Spartanburg.....	83,465
Cherokee.....	26,179	Horry.....	26,995	Sumter.....	38,472
Chester.....	29,425	Kershaw.....	27,095	Union.....	29,911
Chesterfield.....	26,301	Lancaster.....	26,654	Williamsburg.....	37,626
Clarendon.....	32,188	Laurens.....	41,550	York.....	47,718
Colleton.....	35,390	Lee.....	25,318		
Darlington.....	36,027	Lexington.....	32,040		

## SOUTH DAKOTA

Armstrong.....	647	Fall River.....	7,763	Minnehaha.....	29,631
Aurora.....	6,143	Faulk.....	6,716	Moody.....	8,695
Beadle.....	15,776	Grant.....	10,303	Pennington.....	12,453
Bonhomme.....	11,061	Gregory.....	13,061	Perkins.....	11,348
Brookings.....	14,178	Hamlin.....	7,475	Potter.....	4,466
Brown.....	25,867	Hand.....	7,870	Roberts.....	14,897
Brule.....	6,451	Hanson.....	6,237	Sanborn.....	6,607
Buffalo.....	1,589	Harding.....	4,228	Schnasse.....	292
Butte.....	4,993	Hughes.....	6,271	Spink.....	15,981
Campbell.....	5,244	Hutchinson.....	12,319	Stanley.....	14,975
Charles Mix.....	14,899	Hyde.....	3,307	Sterling.....	252
Clark.....	10,901	Jerauld.....	5,120	Sully.....	2,462
Clay.....	8,711	Kingsbury.....	12,560	Tripp.....	8,323
Codington.....	14,092	Lake.....	10,711	Turner.....	13,840
Corson.....	2,920	Lawrence.....	19,694	Union.....	10,676
Custer.....	4,458	Lincoln.....	12,712	Walworth.....	6,488
Davison.....	11,625	Lyman.....	10,848	Yankton.....	13,135
Day.....	14,372	McCook.....	9,589	Pine Ridge Indian Reservation.....	6,607
Deuel.....	7,768	McPherson.....	6,791	Rosebud Indian Res- ervation.....	3,960
Dewey.....	1,145	Marshall.....	8,021		
Douglas.....	6,400	Meade.....	12,640		
Edmunds.....	7,654	Miner.....	7,661		

# POPULATION BY COUNTIES

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## TENNESSEE

Anderson.....	17,717	Hamilton.....	89,267	Moore.....	4,800
Bedford.....	22,667	Hancock.....	10,778	Morgan.....	11,458
Benton.....	12,452	Hardeman.....	23,011	Obion.....	29,946
Bledsoe.....	6,329	Hardin.....	17,521	Overton.....	15,854
Blount.....	20,809	Hawkins.....	23,587	Perry.....	8,815
Bradley.....	16,336	Haywood.....	25,910	Pickett.....	5,087
Campbell.....	27,387	Henderson.....	17,030	Polk.....	14,116
Cannon.....	10,825	Henry.....	25,434	Putnam.....	20,023
Carroll.....	23,971	Hickman.....	16,527	Rhea.....	15,410
Carter.....	19,838	Houston.....	6,224	Roane.....	22,860
Cheatham.....	10,540	Humphreys.....	13,908	Robertson.....	25,466
Chester.....	9,090	Jackson.....	15,036	Rutherford.....	33,190
Claiborne.....	23,504	James.....	5,210	Scott.....	12,947
Clay.....	9,009	Jefferson.....	17,755	Sequatchie.....	4,202
Cocke.....	19,399	Johnson.....	13,191	Sevier.....	22,296
Coffee.....	15,625	Knox.....	94,187	Shelby.....	191,439
Crockett.....	16,076	Lake.....	8,704	Smith.....	18,548
Cumberland.....	9,327	Lauderdale.....	21,105	Stewart.....	14,860
Davidson.....	149,478	Lawrence.....	17,569	Sullivan.....	28,120
Decatur.....	10,093	Lewis.....	6,033	Sumner.....	25,621
Dekalb.....	15,434	Lincoln.....	25,908	Tipton.....	29,459
Dickson.....	19,955	Loudon.....	13,612	Trousdale.....	5,874
Dyer.....	27,721	McMinn.....	21,046	Unicoi.....	7,201
Fayette.....	30,257	McNairy.....	16,356	Union.....	11,414
Fentress.....	7,446	Macon.....	14,559	Van Buren.....	2,784
Franklin.....	20,491	Madison.....	39,357	Warren.....	16,534
Gibson.....	41,630	Marion.....	18,820	Washington.....	28,968
Giles.....	32,629	Marshall.....	16,872	Wayne.....	12,062
Grainger.....	13,888	Maury.....	40,456	Weakley.....	31,929
Greene.....	31,083	Meigs.....	6,131	White.....	15,420
Grundy.....	8,322	Monroe.....	20,716	Williamson.....	24,213
Hamblen.....	13,650	Montgomery.....	33,672	Wilson.....	25,394

## TEXAS

Anderson.....	29,650	Calhoun.....	3,635	Dallas.....	135,748
Andrews.....	975	Callahan.....	12,973	Dawson.....	2,320
Angelina.....	17,705	Cameron.....	27,158	De Witt.....	23,501
Aransas.....	2,106	Camp.....	9,551	Deaf Smith.....	3,942
Archer.....	6,525	Carson.....	2,127	Delta.....	14,566
Armstrong.....	2,682	Cass.....	27,587	Denton.....	31,258
Atascosa.....	10,004	Castro.....	1,850	Dickens.....	3,092
Austin.....	17,699	Chambers.....	4,234	Dimmit.....	3,460
Bailey.....	312	Cherokee.....	29,038	Donley.....	5,284
Bandera.....	4,921	Childress.....	9,538	Duval.....	8,964
Bastrop.....	25,344	Clay.....	17,043	Eastland.....	23,421
Baylor.....	8,411	Cochran.....	65	Ector.....	1,178
Bee.....	12,090	Coke.....	5,412	Edwards.....	3,768
Bell.....	49,186	Coleman.....	22,618	El Paso.....	52,599
Bexar.....	119,676	Collin.....	49,021	Ellis.....	53,629
Blanco.....	4,311	Collingsworth.....	5,224	Erath.....	32,095
Borden.....	1,386	Colorado.....	18,897	Falls.....	35,649
Bosque.....	19,013	Comal.....	8,434	Fannin.....	44,801
Bowie.....	4,827	Comanche.....	27,186	Fayette.....	29,796
Brazoria.....	13,299	Concho.....	6,654	Fisher.....	12,596
Brazos.....	18,919	Cooke.....	26,603	Floyd.....	4,638
Brewster.....	5,220	Coryell.....	21,703	Foard.....	5,726
Briscoe.....	2,162	Cottle.....	4,396	Fort Bend.....	18,168
Brown.....	22,935	Crane.....	331	Franklin.....	9,331
Burleson.....	18,687	Crockett.....	1,296	Freestone.....	20,557
Burnet.....	10,755	Crosby.....	1,765	Frio.....	8,895
Caldwell.....	24,237	Dallam.....	4,001	Gaines.....	1,255

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Galveston.....	44,479	Lee.....	13,132	Runnels.....	20,858
Garza.....	1,995	Leon.....	16,583	Rusk.....	26,946
Gillespie.....	9,447	Liberty.....	10,686	Sabine.....	8,582
Glasscock.....	1,143	Limestone.....	34,621	San Augustine.....	11,264
Goliad.....	9,909	Lipscomb.....	2,634	San Jacinto.....	9,542
Gonzales.....	28,055	Live Oak.....	3,442	San Patricio.....	7,307
Gray.....	3,405	Llano.....	6,520	San Saba.....	11,245
Grayson.....	65,996	Loving.....	249	Schleicher.....	1,893
Gregg.....	14,140	Lubbock.....	3,624	Scurry.....	10,924
Grimes.....	21,205	Lynn.....	1,713	Shackelford.....	4,201
Guadalupe.....	24,913	McCulloch.....	13,405	Shelby.....	26,423
Hale.....	7,566	McLennan.....	73,250	Sherman.....	1,376
Hall.....	8,279	McMullen.....	1,091	Smith.....	41,746
Hamilton.....	15,315	Madison.....	10,318	Somervell.....	3,931
Hansford.....	935	Marion.....	10,472	Starr.....	13,151
Hardeman.....	11,213	Martin.....	1,549	Stephens.....	7,980
Hardin.....	12,947	Mason.....	5,683	Sterling.....	1,493
Harris.....	115,693	Matagorda.....	13,594	Stonewall.....	5,320
Harrison.....	37,243	Maverick.....	5,151	Sutton.....	1,569
Hartley.....	1,298	Medina.....	13,415	Swisher.....	4,012
Haskell.....	16,249	Menard.....	2,707	Tarrant.....	108,572
Hays.....	15,518	Midland.....	3,464	Taylor.....	26,293
Hemphill.....	3,170	Milam.....	36,780	Terrell.....	1,430
Henderson.....	20,131	Mills.....	9,694	Terry.....	1,474
Hidalgo.....	13,728	Mitchell.....	8,956	Throckmorton.....	4,563
Hill.....	46,760	Montague.....	25,123	Titus.....	16,422
Hockley.....	137	Montgomery.....	15,679	Tom Green.....	17,882
Hood.....	10,008	Moore.....	561	Travis.....	55,620
Hopkins.....	31,038	Morris.....	10,439	Trinity.....	12,768
Houston.....	29,564	Motley.....	2,396	Tyler.....	10,250
Howard.....	8,881	Nacogdoches.....	27,406	Upshur.....	19,960
Hunt.....	48,116	Navarro.....	47,070	Upton.....	501
Hutchinson.....	892	Newton.....	10,850	Uvalde.....	11,233
Irion.....	1,283	Nolan.....	11,999	Val Verde.....	8,613
Jack.....	11,817	Nueces.....	21,955	Van Zandt.....	25,651
Jackson.....	6,471	Ochiltree.....	1,602	Victoria.....	14,990
Jasper.....	14,000	Oldham.....	812	Walker.....	16,061
Jeff Davis.....	1,678	Orange.....	9,528	Waller.....	12,138
Jefferson.....	38,182	Palo Pinto.....	19,506	Ward.....	2,389
Johnson.....	34,460	Panola.....	20,424	Washington.....	25,561
Jones.....	24,299	Parker.....	26,331	Webb.....	22,503
Karnes.....	14,942	Parmer.....	1,555	Wharton.....	21,123
Kaufman.....	35,323	Pecos.....	2,071	Wheeler.....	5,258
Kendall.....	4,517	Polk.....	17,459	Wichita.....	16,094
Kent.....	2,655	Potter.....	12,424	Wilbarger.....	12,000
Kerr.....	5,505	Presidio.....	5,218	Williamson.....	42,228
Kimble.....	3,261	Rains.....	6,787	Wilson.....	17,066
King.....	810	Randall.....	3,312	Winkler.....	442
Kinney.....	3,401	Reagan.....	392	Wise.....	26,450
Knox.....	9,625	Red River.....	28,564	Wood.....	23,417
La Salle.....	4,747	Reeves.....	4,392	Yoakum.....	602
Lamar.....	46,544	Refugio.....	2,814	Young.....	13,657
Lamb.....	540	Roberts.....	950	Zapata.....	3,809
Lampasas.....	9,532	Robertson.....	27,454	Zavalla.....	1,889
Lavaca.....	26,418	Rockwall.....	8,072		

## UTAH

Beaver.....	4,717	Garfield.....	3,660	Morgan.....	2,467
Boxelder.....	13,894	Grand.....	1,595	Piute.....	1,734
Cache.....	23,062	Iron.....	3,933	Rich.....	1,883
Carbon.....	8,624	Juab.....	10,702	Salt Lake.....	131,426
Davis.....	10,191	Kane.....	1,652	San Juan.....	2,377
Emery.....	6,750	Millard.....	6,118	Sanpete.....	16,704

# POPULATION BY COUNTIES

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Sevier.....	9,775	Uinta.....	7,050	Washington.....	5,123
Summit.....	8,200	Utah.....	37,942	Wayne.....	1,749
Tooele.....	7,924	Wasatch.....	8,920	Weber.....	35,179

## VERMONT

Addison.....	20,010	Franklin.....	29,866	Rutland.....	48,139
Bennington.....	21,378	Grand Isle.....	3,761	Washington.....	41,702
Caledonia.....	26,031	Lamoille.....	12,585	Windham.....	26,932
Chittenden.....	42,447	Orange.....	18,703	Windsor.....	33,681
Essex.....	7,384	Orleans.....	23,337		

## VIRGINIA

Accomac.....	36,650	Frederick.....	12,787	Orange.....	13,486
Albemarle.....	29,871	Giles.....	11,623	Page.....	14,147
Alexandria.....	10,231	Gloucester.....	12,477	Patrick.....	17,195
Alleghany.....	14,173	Goochland.....	9,237	Pittsylvania.....	50,709
Amelia.....	8,720	Grayson.....	19,856	Powhatan.....	6,099
Amherst.....	18,932	Greene.....	6,937	Prince Edward.....	14,266
Appomattox.....	8,904	Greenville.....	11,890	Prince George.....	7,848
Augusta.....	32,445	Halifax.....	40,044	Prince William.....	12,026
Bath.....	6,538	Hanover.....	17,200	Princess Anne.....	11,526
Bedford.....	29,549	Henrico.....	23,437	Pulaski.....	17,246
Bland.....	5,154	Henry.....	18,459	Rappahannock.....	8,044
Botetourt.....	17,727	Highland.....	5,317	Richmond.....	7,415
Brunswick.....	19,244	Isle of Wight.....	14,929	Roanoke.....	19,623
Buchanan.....	12,334	James City.....	3,624	Rockbridge.....	21,171
Buckingham.....	15,204	King and Queen.....	9,576	Rockingham.....	34,903
Campbell.....	23,043	King George.....	6,378	Russell.....	23,474
Caroline.....	16,596	King William.....	8,547	Scott.....	23,814
Carroll.....	21,116	Lancaster.....	9,752	Shenandoah.....	20,942
Charles City.....	5,253	Lee.....	23,840	Smyth.....	20,326
Charlotte.....	15,785	Loudoun.....	21,167	Southampton.....	26,302
Chesterfield.....	21,299	Louisa.....	16,578	Spotsylvania.....	9,935
Clarke.....	7,468	Lunenburg.....	12,780	Stafford.....	8,070
Craig.....	4,711	Madison.....	10,055	Surry.....	9,715
Culpeper.....	13,472	Mathews.....	8,922	Sussex.....	13,664
Cumberland.....	9,195	Mecklenburg.....	28,956	Tazewell.....	24,946
Dickenson.....	9,199	Middlesex.....	8,852	Warren.....	8,589
Dinwiddie.....	15,442	Montgomery.....	17,268	Warwick.....	6,041
Elizabeth City.....	21,225	Nansemond.....	26,886	Washington.....	32,830
Essex.....	9,105	Nelson.....	16,821	Westmoreland.....	9,313
Fairfax.....	20,536	New Kent.....	4,682	Wiese.....	34,162
Fauquier.....	22,526	Norfolk.....	52,744	Wythe.....	20,372
Floyd.....	14,092	Northampton.....	16,672	York.....	7,757
Fluvanna.....	8,323	Northumberland.....	10,777		
Franklin.....	26,480	Nottoway.....	13,462		

## WASHINGTON

Adams.....	10,920	Grant.....	8,698	San Juan.....	3,603
Asotin.....	5,831	Island.....	4,704	Skagit.....	29,241
Benton.....	7,937	Jefferson.....	8,337	Skamania.....	2,887
Chehalis.....	35,590	King.....	284,638	Snohomish.....	59,209
Chelan.....	15,104	Kitsap.....	17,647	Spokane.....	139,404
Clallam.....	6,755	Kittitas.....	18,561	Stevens.....	25,297
Clarke.....	26,115	Klickitat.....	10,180	Thurston.....	17,581
Columbia.....	7,042	Lewis.....	32,127	Wahkiakum.....	3,285
Cowlitz.....	12,561	Lincoln.....	17,539	Walla Walla.....	31,931
Douglas.....	9,227	Mason.....	5,156	Whatcom.....	49,511
Ferry.....	4,800	Okanogan.....	12,887	Whitman.....	33,280
Franklin.....	5,153	Pacific.....	12,532	Yakima.....	41,709
Garfield.....	4,199	Pierce.....	120,812		

## INVENTOR'S MANUAL

## WEST VIRGINIA

Barbour.....	15,858	Kanawha.....	81,457	Preston.....	26,341
Berkeley.....	21,999	Lewis.....	18,281	Putnam.....	18,587
Boone.....	10,331	Lincoln.....	20,491	Raleigh.....	25,633
Braxton.....	23,023	Logan.....	14,476	Randolph.....	26,028
Brooke.....	11,098	McDowell.....	47,856	Ritchie.....	17,875
Cabell.....	46,685	Marion.....	42,794	Roane.....	21,543
Calhoun.....	11,258	Marshall.....	32,388	Summers.....	18,420
Clay.....	10,233	Mason.....	23,019	Taylor.....	16,554
Doddridge.....	12,672	Mercer.....	38,371	Tucker.....	18,675
Fayette.....	51,903	Mineral.....	16,674	Tyler.....	16,211
Gilmer.....	11,379	Mingo.....	19,431	Upshur.....	16,629
Grant.....	7,838	Monongalia.....	24,334	Wayne.....	24,081
Greenbrier.....	24,833	Monroe.....	13,055	Webster.....	9,680
Hampshire.....	11,694	Morgan.....	7,848	Wetzel.....	23,855
Hancock.....	10,465	Nicholas.....	17,699	Wirt.....	9,047
Hardy.....	9,163	Ohio.....	57,572	Wood.....	38,001
Harrison.....	48,381	Pendleton.....	9,349	Wyoming.....	10,392
Jackson.....	20,956	Pleasants.....	8,074		
Jefferson.....	15,889	Pocahontas.....	14,740		

## WISCONSIN

Adams.....	8,604	Iowa.....	22,497	Portage.....	30,945
Ashland.....	21,965	Iron.....	8,306	Price.....	13,795
Barron.....	29,114	Jackson.....	17,075	Racine.....	57,424
Bayfield.....	15,987	Jefferson.....	34,306	Richland.....	18,809
Brown.....	54,098	Juneau.....	19,569	Rock.....	55,538
Buffalo.....	16,006	Kenosha.....	32,929	Rusk.....	11,160
Burnett.....	9,026	Kewaunee.....	16,784	St. Croix.....	25,910
Calumet.....	16,701	La Crosse.....	43,996	Sauk.....	32,869
Chippewa.....	32,103	Lafayette.....	20,075	Sawyer.....	6,227
Clark.....	30,074	Langlade.....	17,062	Shawano.....	31,884
Columbia.....	31,129	Lincoln.....	19,064	Sheboygan.....	54,888
Crawford.....	16,288	Manitowoc.....	44,978	Taylor.....	13,641
Dane.....	77,435	Marathon.....	55,054	Trempealeau.....	22,928
Dodge.....	47,436	Marinette.....	33,812	Vernon....	28,116
Door.....	18,711	Marquette.....	10,741	Vilas....	6,019
Douglas.....	47,422	Milwaukee.....	433,187	Walworth....	29,614
Dunn.....	25,260	Monroe.....	28,881	Washburn....	8,196
Eau Claire.....	32,721	Oconto.....	25,657	Washington....	23,784
Florence.....	3,381	Oneida.....	11,433	Waukesha....	37,100
Fond du Lac.....	51,610	Outagamie.....	49,102	Waupaca....	32,782
Forest.....	6,782	Ozaukee.....	17,123	Waushara....	18,886
Grant.....	39,007	Pepin.....	7,577	Winnebago....	62,116
Green.....	21,641	Pierce.....	22,079	Wood....	30,583
Green Lake.....	15,491	Polk.....	21,367		

## WYOMING

Albany.....	11,574	Fremont.....	11,822	Sheridan.....	16,324
Bighorn.....	8,886	Johnson.....	3,453	Sweetwater.....	11,575
Carbon.....	11,282	Laramie.....	26,127	Uinta.....	16,982
Converse.....	6,294	Natrona.....	4,766	Weston.....	4,960
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